



This is a digital copy of a book that was preserved for generations on library shelves before it was carefully scanned by Google as part of a project to make the world's books discoverable online.

It has survived long enough for the copyright to expire and the book to enter the public domain. A public domain book is one that was never subject to copyright or whose legal copyright term has expired. Whether a book is in the public domain may vary country to country. Public domain books are our gateways to the past, representing a wealth of history, culture and knowledge that's often difficult to discover.

Marks, notations and other marginalia present in the original volume will appear in this file - a reminder of this book's long journey from the publisher to a library and finally to you.

### Usage guidelines

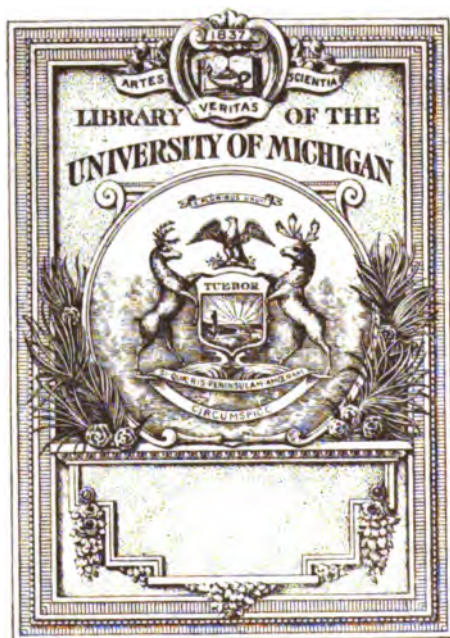
Google is proud to partner with libraries to digitize public domain materials and make them widely accessible. Public domain books belong to the public and we are merely their custodians. Nevertheless, this work is expensive, so in order to keep providing this resource, we have taken steps to prevent abuse by commercial parties, including placing technical restrictions on automated querying.

We also ask that you:

- + *Make non-commercial use of the files* We designed Google Book Search for use by individuals, and we request that you use these files for personal, non-commercial purposes.
- + *Refrain from automated querying* Do not send automated queries of any sort to Google's system: If you are conducting research on machine translation, optical character recognition or other areas where access to a large amount of text is helpful, please contact us. We encourage the use of public domain materials for these purposes and may be able to help.
- + *Maintain attribution* The Google "watermark" you see on each file is essential for informing people about this project and helping them find additional materials through Google Book Search. Please do not remove it.
- + *Keep it legal* Whatever your use, remember that you are responsible for ensuring that what you are doing is legal. Do not assume that just because we believe a book is in the public domain for users in the United States, that the work is also in the public domain for users in other countries. Whether a book is still in copyright varies from country to country, and we can't offer guidance on whether any specific use of any specific book is allowed. Please do not assume that a book's appearance in Google Book Search means it can be used in any manner anywhere in the world. Copyright infringement liability can be quite severe.

### About Google Book Search

Google's mission is to organize the world's information and to make it universally accessible and useful. Google Book Search helps readers discover the world's books while helping authors and publishers reach new audiences. You can search through the full text of this book on the web at <http://books.google.com/>

















UNIVERSITY OF CALIFORNIA

---

REGISTER

1916-17

WITH ANNOUNCEMENTS FOR 1917-18

---

UNIVERSITY OF CALIFORNIA PRESS

BERKELEY

1917

Digitized by Google



# CONTENTS

## PART I—CIRCULAR OF INFORMATION—ACADEMIC DEPARTMENTS

Calendar, 5.  
 The Regents of the University, 8.  
     Standing Committees of the Regents for  
     the year 1917-18, 9.  
 Administrative Officers, 10.  
 List of Colleges and Departments, 12.  
 Academic Senate, 14.  
     Alphabetical List, 20.  
 General Statement, 46.  
     History, 46.  
     Organization, 53.  
     Administration, 53.  
     Site and Climate, 54.  
     Funds, 55.  
 Organization of Instruction, 56.  
 Status of Students, 57.  
 Admission Requirements, 57.  
     General List of Preparatory Subjects, 58.  
     Matriculation groups required for admission  
     to the several colleges, 59.  
     Recommendations for the Various Curricula,  
     65.  
     Admission with Deficiencies, 69.  
     Surplus Matriculation Credit, 70.  
     Students at Large, 70.  
     Special and Limited Students, 70.  
     Description of the Preparatory Subjects,  
     71.  
 Methods of Admission, 98.  
     Admission by Examination, 98.  
     College Entrance Examination Board, 98.  
     Admission from Accredited Schools in  
     California, 100.  
     List of Accredited Schools, 101.  
     Admission from California State Normal  
     Schools, 108.  
     Admission on Teachers' Diplomas, 108.  
     Admission from Secondary Schools outside  
     of California, 108.  
     Admission to Advanced Standing in Undergraduate  
     Courses, 109.  
     Admission from Schools and Colleges in  
     the Orient, 109.

Admission to Graduate Courses, 110.  
     Residence, 110.  
 College of Letters and Science, 111.  
     Lower Division, 111.  
     Requirements for Matriculation and Junior  
     Certificate, 113.  
     The Upper Division, 116.  
 Curricula—  
     College of Letters and Science, 117.  
     College of Commerce, 120.  
     College of Agriculture, 122.  
         Forest Utilization, 125.  
     Military Engineering, 126.  
     College of Mechanics, 127.  
     College of Mining, 128.  
     College of Civil Engineering, 129.  
     College of Chemistry, 130.  
 Summary of Requirements in units for  
     Bachelor's Degrees, 132.  
     School of Architecture, 133.  
     School of Education, 136.  
     School of Jurisprudence, 136.  
     Medical School, 137.  
     Curricula in Public Health, 138.  
 Extracts from the General Regulations of  
     the Faculties, 141.  
 The Graduate Division, 151.  
     General Information, 152.  
     Deans, 152.  
     Expenses of Students, 152.  
     Opportunities for Self-Support, 154.  
     Loan Funds, 155.  
     Medals, Prizes, 158.  
     Scholarships, 160.  
     Special Lectureships, 170.  
     University Extension, 170.  
     Appointment Registry, 172.  
     Summer Session, 173.  
     Library, Museums, and Laboratories, 174.  
     Gymnasiums, 193.  
     Infirmary, 194.  
 Statistical Summaries, 195.  
 Index, 197.

## PART II—THE ANNOUNCEMENT OF COURSES FOR 1917-18

Classification and Numbering of Courses, 3.  
 The University Library, 4.

Announcement of Courses, 5.  
 Index, 260.

## PART III—LICK ASTRONOMICAL DEPARTMENT

## PART IV—SCRIPPS INSTITUTION FOR BIOLOGICAL RESEARCH

## PART V—ANNOUNCEMENT OF THE SUMMER SESSION, 1917—ABRIDGED EDITION

General Information, 3.  
 Faculty of the Summer Session, 10.

Courses of Instruction, 19.

## PART VI—CALIFORNIA SCHOOL OF FINE ARTS

## PART VII—HASTINGS COLLEGE OF THE LAW

Directors and Faculty, 1.  
 Calendar and Directory, 1.  
 Admission, 1.

Courses of Instruction, 2.  
 Students, Part XIV, 177.  
 Graduation, 5.

## PART VIII—MEDICAL SCHOOL

Calendar, 5.  
 Organization, 7.  
 Regents of the University, 9.  
 Advisory Board—George Williams Hooper  
 Foundation for Medical Research, 10.  
 Faculty and Teaching Staff, 11.  
 Administrative Officers of the Medical  
 School, 18.  
 Faculty and Teaching Staff, 11.  
 Standing Committees of the Medical School,  
 18.  
 Medical Staff—University Hospital and Out-  
 Patient Department, 19.  
 Medical Staff—San Francisco Hospital, 20.  
 History and Development, 24.  
 Requirements for Admission and Gradua-  
 tion, 26.  
 Requirements for Admission, 29.  
 Admission to Advanced Standing, 33.  
 Instruction for Graduates in Medicine, 33.  
 Class Standing and Examination, 38.  
 Leaves of Absence, 34.  
 Requirements for Graduation, 34.  
 Curriculum in Public Health, 35.  
 General Information, 37.  
 Registration, 39.  
 Fees, 39.  
 Microscopes and Blood Counting Appa-  
 ratus, 39.  
 Medical Supervision Over Students, 40.  
 Libraries, 40.  
 Laboratories and Clinical Opportunities,  
 40.  
 The University Hospital, 41.  
 The San Francisco Hospital, 42.  
 Out-Patient Department, 43.  
 Social Service Department, 43.  
 Tuberculosis Clinics, 44.  
 The Cancer Ward, 44.  
 The Hooper Foundation for Medical  
 Research, 44.

The Children's Hospital, 44.  
 Electives in Homeopathy, 45.  
 Scholarships, 45.  
 Hospital Appointments, 46.  
 Plan of Instruction and Announcement of  
 Courses, 48.  
 General Statement, 51.  
 Arrangement of Studies, 53.  
 Departments of Instruction, 56.  
 Anatomy, 56.  
 Physiology, 59.  
 Biochemistry and Pharmacology, 60.  
 Pathology and Bacteriology, 63.  
 Preventive Medicine and Hygiene, 65.  
 Materia Medica and Practical Thera-  
 peutics, 65.  
 Medicine (including Clinical Pathol-  
 ogy), 67.  
 Research Medicine, 69.  
 Neurology and Psychiatry, 71.  
 Dermatology and Syphilology, 72.  
 Legal Medicine, 73.  
 Pediatrics, 73.  
 Surgery, 75.  
 Orthopedic Surgery, 77.  
 Laryngology, Otology, and Rhinology,  
 78.  
 Ophthalmology, 79.  
 Urology, 79.  
 Roentgenology, 80.  
 Obstetrics and Gynecology, 80.  
 Fourth-Year Electives, 82.  
 General Statement, 82.  
 Electives arranged by Departments, 82-  
 90.  
 Schedules of Courses, 94-100.  
 Degrees Conferred May, 1917, 101.  
 List of Students, 102-108.  
 Graduates, 111-120.

## PART IX—LOS ANGELES MEDICAL DEPARTMENT

## PART X—CALIFORNIA COLLEGE OF PHARMACY

List of Colleges and Departments in the  
 University, 3.  
 Regents of the University, 5.  
 Officers and Faculty, 7.  
 Calendar, 8.  
 Announcement for 1917-18, 9.  
 Admission Requirements, 13.

Courses of Instruction, 1917-18, 15.  
 Graduate Courses, 23.  
 Conditions for Graduation, 30.  
 Fees, 30.  
 Graduating Class, 1917, 32.  
 Students, 1916-17, 33: Part XIV, p. 187.  
 Alumni Association, 35.



PART XI—COLLEGE OF DENTISTRY

Regents of the University, 3.  
Colleges and Departments of the University,  
5.  
Faculty, 7.  
Calendar, 8.  
History, 9.  
Location and Equipment, 9.  
Admission, 11.  
Summer Session Courses, 14.  
Extracts from Regulations, 17.  
Course of Study, 20.

Graduation Requirements, 29.  
Extracts from Law Regulating the Practice  
of Dentistry in California, 29.  
Fees, 31.  
Curriculum, 32.  
Library, 43.  
Museum, 43.  
Alumni Association, 44.  
The Student Body, 44.  
Instruments, 45.  
Students, 1916-17, 46; Part XIV, p. 184.

PART XII—EXTRACTS FROM THE ANNOUNCEMENT OF THE GRADUATE DIVISION

Graduate Council, 3.  
Advisors for Graduate Study, 4.  
History and Organization of Graduate In-  
struction, 6.  
University of California Publications, 7.

Conditions of Admission, Candidacy, and  
Degrees in the Graduate Division, 8.  
Regulations of the Faculties Concerning  
Graduate Students, 8.  
Conditions for Degrees in Engineering, 15.  
School of Education, 18.

PART XIII—COMMENCEMENT, 1917

Programme of Exercises, 3.  
Degrees Conferred, 1916-17, 5.  
Honors, 46.  
Military Commissions, 1917, 50.  
Awards of Graduate and Professional Schol-  
arships and Fellowships, 1917-18, 51.

Awards of Undergraduate Scholarships,  
1917-18, 54.  
Prizes, 59.  
University Medal, 61.

PART XIV—CATALOGUE OF OFFICERS AND STUDENTS FOR 1916-17

Explanatory Note, 2.  
The Regents of the University, 3.  
Standing Committees of the Regents, 4.  
Administrative Officers, 5.  
Departments of Instruction, 7.  
Standing Committees, 10.  
Council of the Alumni, 12.  
Executive Committee of the Associated Stu-  
dents, 18.  
Club House Loan Fund Committee, 14.  
Officers, 15.  
Students at Berkeley, at Mt. Hamilton (the  
Lick Observatory), and at Davis (the  
University Farm): Colleges of Letters  
and Science, Commerce, Agriculture,  
Mechanics, Mining, Civil Engineering,

Chemistry, Schools of Architecture, Ed-  
ucation, Jurisprudence, and the first  
two years of the Medical School—  
Graduate Students, 46.  
Undergraduate Students, 77.  
Students in San Francisco and Los An-  
geles—  
Hastings College of the Law, 177.  
Medical School, 179.  
Los Angeles Medical Department, 182.  
College of Dentistry, 184.  
California College of Pharmacy, 187.  
Statistical Summary, 189.  
Fraternities, 190.  
House Clubs, 190.  
Telephone Guide, 192.  
University Telephones, 206.

PART XV—INDEX



**REGISTER—PART I**

**CIRCULAR OF INFORMATION  
ACADEMIC DEPARTMENTS**

**AUGUST, 1917**

CI

LE

PUI

**UNIVERSITY OF CALIFORNIA**

---

**CIRCULAR OF INFORMATION**

**WITH SPECIAL REFERENCE TO THE COLLEGES OF  
LETTERS AND SCIENCE, COMMERCE, AGRICULTURE,  
MECHANICS, MINING, CIVIL ENGINEERING,  
AND CHEMISTRY**

**AND THE SCHOOLS OF  
ARCHITECTURE, EDUCATION, AND JURISPRUDENCE**

**1917-1918**

**PUBLISHED BY THE REGENTS OF THE UNIVERSITY OF CALIFORNIA**

---

**UNIVERSITY OF CALIFORNIA PRESS  
BERKELEY**

**1917**



## CONTENTS

---

- Calendar, 5.
- Regents of the University, 8.
  - Standing Committees, 9.
- Administrative Officers, 10.
- Colleges and Departments, 12.
- Academic Senate, 14.
  - Alphabetical List, 20.
- General Statement, 46.
  - History, 46.
  - Organization, 53.
  - Administration, 53.
  - Site and Climate, 54.
  - Funds, 55.
- Organization of Instruction, 56.
- Status of Students, 57.
- Admission, 57.
  - List of Preparatory Subjects, 59.
  - Matriculation Groups, 60-64.
  - Recommendations for the Various Curricula, 65.
  - Admission with Deficiencies, 69.
  - Surplus Matriculation Credit, 70.
  - Students at Large, 70.
  - Special Students, 70.
  - Limited Students, 71.
  - Description of Preparatory Subjects, 71.
- Methods of Admission, 98.
  - By examination, 98.
  - College Entrance Examination Board, 98.
  - Dividing of Matriculation Examinations, 99.
  - From Accredited Schools in California, 100.
  - List of Accredited Schools, 101.
  - From California State Normal Schools, 108.
  - On Teachers' Diplomas, 108.
  - From Secondary Schools Outside of California, 108.
  - Admission to Advanced Standing, 109.
  - From Schools and Colleges in the Orient, 109.
  - Admission to Graduate Courses, 110.
  - Residence, 110.
  - College of Letters and Science, 111.
    - Lower Division, 111.
    - Matriculation and Junior Certificate Requirements, 113.
    - Upper Division, 116.
- Curricula—
  - College of Commerce, 120.
  - College of Agriculture, 122.
  - Forest Utilization, 125.
  - Military Engineering, 126.
  - College of Mechanics, 127.
  - College of Mining, 128.
  - College of Civil Engineering, 129.
  - College of Chemistry, 130.
  - Summary of Requirements in Units for Bachelors' Degrees, 132.
  - School of Architecture, 133.
  - School of Education, 136.
  - School of Jurisprudence, 136.
  - Medical School, 137.
  - Public Health, 138.
- General Regulations of the Faculties, 141.
- The Graduate Division, 151.
- General Information, 152.
  - Deans, 152.
  - One-mile Liquor Law, 152.
  - Expenses of Students, 152.
  - Opportunities for Self-support, 154.
  - Loan Funds, 155.
  - Medals, Prizes, 158.
  - Scholarships, 160.
  - Special Lectureships, 170.
  - University Extension, 170.
  - Appointment Registry, 172.
  - Summer Session, 173.
  - Library, Museums, and Laboratories, 174.
  - Gymnasiums, 193.
  - Infirmary, 194.
- Statistical Summaries, 195, 196.
- Index, 197.

Letters of inquiry concerning the University should be addressed to the *Recorder of the Faculties, Berkeley, California*.

For the list of bulletins of information concerning the several colleges and departments see page 2 of the cover.

In writing for information, please mention the college, department, or study in which you are chiefly interested.

Attention is called to the calendar on pages 5-7, and especially to the dates for the forwarding of applications, for registration, and for the beginning of instruction.



## CALENDAR

Stated meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, and on the day preceding Commencement Day, in May of each year, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The July meeting is usually dispensed with. The Finance Committee meets at 11 a.m. on the first and third Tuesdays of each month, and the Committee on Grounds and Buildings at 2:30 p.m. on the second Friday before the second Tuesday of each month.

University meetings occur on alternate Friday mornings during the academic year at 11:07 o'clock.

### 1917

- Aug. 6, Monday Applications for admission, and credentials of the recommended graduates of accredited high schools to be filed with the Recorder of the Faculties. Recommendations for admission from accredited schools in California (with the applications for admission to regular undergraduate standing) to be on file with the Recorder of the Faculties by this date. Other credentials should be on file earlier.\*
- Aug. 9, Thursday } Matriculation examinations at Berkeley, for the Academic Colleges, the College of Dentistry, the California College of Pharmacy (three and four year courses), and Hastings College of the Law. Filing of applications for admission to advanced and graduate standing and to special status.
- Aug. 14, Tuesday }
- Aug. 17, Friday } All officers of instruction in the colleges at Berkeley keep office hours each day, from 9 a.m. to 12 m. Also on Friday and
- Aug. 18, Saturday } Monday, from 2 to 4:30 p.m.
- Aug. 20, Monday } Admission certificates issued to intrants; registration of new students, graduate and undergraduate, from 8:30 a.m. to 4:30 p.m., in the grove north of California Hall.
- Aug. 17, Friday }
- Aug. 18, Saturday }
- Aug. 20, Monday Registration of old students, graduate and undergraduate, 8:30 a.m. to 5 p.m., in the grove north of California Hall.
- Aug. 21, Tuesday Instruction in all classes begins at 8:07 a.m.
- Sept. 5, Wednesday Last day for filing applications and programmes in candidacy for doctors' degrees, masters' degrees, and teachers' recommendations to be conferred December, 1917; office of the Dean of the Graduate Division, 201B California Hall. All signatures required upon these applications must be secured in advance.
- Oct. 31, Wednesday Last day for filing in final form with the instructors in charge, theses for Ph.D. to be conferred December, 1917.
- Nov. 28, Wednesday Last day for filing in final form with the instructors in charge, theses for masters' degrees to be conferred December, 1917.

\* In general recommendations from accredited schools and credentials from schools and colleges either in the State of California or elsewhere should be sent to the Recorder of the Faculties as early as possible during the summer. Ample time should be allowed for correspondence and for notification by the University of applicants who may be required to take one or more of the matriculation examinations. Applicants whose papers are received too late for full consideration before the matriculation examinations may be seriously inconvenienced in beginning work or may be obliged to defer their entrance to the University until a later session.

Nov. 29, Thursday }	Thanksgiving recess of three days.
Dec. 1, Saturday }	
Dec. 1, Saturday	Last day for applications for the accrediting of secondary schools for 1917-18.
Dec. 10, Monday }	Mid-year examinations in the Medical School.
Dec. 15, Saturday }	
Dec. 11, Tuesday }	Mid-year examinations in the Academic Colleges.
Dec. 21, Friday }	
Dec. 17, Monday }	Christmas vacation in the Medical School.
Jan. 5, Saturday }	
Dec. 24, Monday }	Christmas vacation in the Academic Colleges, Hastings College of the Law, the College of Dentistry, and the California College of Pharmacy.
Jan. 12, Saturday }	
1918	
Jan. 7, Monday	Applications for admission in January and applications for cards of admission to the matriculation examinations in January, to be filed.
Jan. 7, Monday	Second half-year in the Medical School begins.
Jan. 8, Tuesday }	Examinations in the Academic Colleges for the removal of matriculation deficiencies.
Jan. 12, Saturday }	
Jan. 14, Monday	Registration of students in the Academic Colleges for courses of the second half-year.
Jan. 15, Tuesday	Instruction begins at 8:07 a.m.
Jan. 28, Wednesday	Last day for filing applications and programmes in candidacy for doctors' degrees, masters' degrees, and teachers' recommendations to be conferred May, 1918; office of the Dean of the Graduate Division, 2018 California Hall. All signatures required upon these applications must be secured in advance.
Mar. 1, Friday	Last day for applications for graduate scholarships for 1918-19.
Mar. 15, Friday	Last day for applications for undergraduate scholarships for 1918-19.
Mar. 28, Saturday	Charter Day. Exercises in the Greek Theatre or Harmon Gymnasium. Faculty Research Lecture.
Mar. 30, Saturday	Last day for filing in final form with the instructors in charge, theses for Ph.D. to be conferred May, 1918.
Apr. 24, Wednesday	Last day for filing in final form with the instructors in charge, theses for masters' degrees to be conferred May, 1918.
May 1, Wednesday	Candidates for Ph.D. file with the Recorder written report of work performed during the year.
Apr. 29, Monday }	Annual examinations in the Academic Colleges. Annual examinations for seniors begin Thursday, April 25.
May 11, Saturday }	
May 18, Monday	Class Day.
May 15, Wednesday	The Fifty-fifth Commencement.
May 20, Monday }	Vacation of twelve weeks in the Academic Colleges, Hastings College of the Law, the Medical School, the College of Dentistry, and the California College of Pharmacy.
Aug. 10, Saturday }	
June 24, Monday }	Summer Session of the Academic Colleges.
Aug. 3, Saturday }	
Aug. 5, Monday	Applications for admission, and credentials of the recommended graduates of accredited high schools to be filed with the Recorder of the Faculties.
Aug. 8, Thursday }	Matriculation examinations at Berkeley, for the Academic Colleges, the College of Dentistry, the California College of Pharmacy (three and four year courses), and Hastings College of the Law. Filing of applications for admission to advanced and graduate standing and to special status.
Aug. 13, Tuesday }	
Aug. 16, Friday }	All officers of instruction in the colleges at Berkeley keep office hours each day, from 9 a.m. to 12 m. Also on Friday and
Aug. 17, Saturday }	Monday, from 2 to 4:30 p.m.
Aug. 19, Monday }	

- Aug. 16, Friday } Admission certificates issued to intrants; registration of new  
 Aug. 17, Saturday } students, graduate and undergraduate, from 8:30 a.m. to  
 4:30 p.m. in the grove north of California Hall.
- Aug. 19, Monday } Registration of old students, graduate and undergraduate, 8:30  
 a.m. to 5 p.m. in the grove north of California Hall.
- Aug. 20, Tuesday } Instruction begins at 8:07 a.m.
- Sept. 4, Wednesday } Last day for filing applications and programmes in candidacy for  
 doctors' degrees, masters' degrees, and teachers' recommen-  
 dations to be conferred December, 1918; office of the Dean  
 of the Graduate Division, 201a California Hall. All signa-  
 tures required upon these applications must be secured in  
 advance.
- Oct. 30, Wednesday } Last day for filing in final form, with the instructors in charge,  
 theses for Ph.D. to be conferred December, 1918.
- Nov. 27, Wednesday } Last day for filing in final form, with the instructors in charge,  
 theses for masters' degrees to be conferred December, 1918.
- Nov. 28, Thursday } Thanksgiving recess of three days.
- Nov. 30, Saturday } Thanksgiving recess of three days.
- Nov. 30, Saturday } Last day for applications for the accrediting of secondary schools  
 for 1918-19.
- Dec. 9, Monday } Mid-year examinations in the Medical School.
- Dec. 14, Saturday } Mid-year examinations in the Medical School.
- Dec. 10, Tuesday } Mid-year examinations in the Academic Colleges.
- Dec. 20, Friday } Mid-year examinations in the Academic Colleges.
- Dec. 16, Monday } Christmas vacation in the Medical School.
- Jan. 4, Saturday } Christmas vacation in the Medical School.
- Dec. 23, Monday } Christmas vacation in the Academic Colleges. Hastings College of  
 Jan. 11, Saturday } the Law, the College of Dentistry, and the California College  
 of Pharmacy.

## 1919

- Jan. 6, Monday } Applications for admission in January and applications for cards  
 of admission to the matriculation examinations in January,  
 to be filed.
- Jan. 6, Monday } Second half-year in the Medical School begins.
- Jan. 7, Tuesday } Examinations in the Academic Colleges for the removal of matric-  
 Jan. 11, Saturday } ulation deficiencies.
- Jan. 13, Monday } Registration of students in the Academic Colleges for courses of  
 the second half-year.
- Jan. 14, Tuesday } Instruction begins at 8:07 a.m.

## REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

## REGENTS EX OFFICIO

His Excellency WILLIAM D. STEPHENS  
Governor of California and President of  
the Regents  
Sacramento

—, Lieutenant-Governor of California.

CLEMENT CALHOUN YOUNG, B.L.  
Speaker of the Assembly  
Shattuck av and Addison st, Berkeley

EDWARD HYATT, B.S.  
State Superintendent of Public Instruction  
Sacramento

Hon. JOHN M. PERRY  
President of the State Agricultural  
Society  
10 W Weber av, Stockton

LIVINGSTON JENKS, A.B., LL.B.  
President of the Mechanics' Institute  
807 Mechanics Institute bldg, San Francisco

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D.  
President of the University  
217 California Hall, Berkeley

## APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the board.

ISAIAS WILLIAM HELLMAN, Esq. (1918)  
Wells Fargo-Nevada National Bank, San Francisco

Mrs. PHOEBE APPERSON HEARST (1930)  
Pleasanton  
Business address: 410 Hearst bldg, San Francisco

ARTHUR WILLIAM FOSTER, Esq. (1932)  
1210 James Flood bldg, San Francisco  
GARRETT WILLIAM MCENERNEY, Esq. (1920)

2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG, Esq. (1932)  
Main and Mission sts, San Francisco

GUY CHAFFER EARL, A.B. (1918)  
14 Sansome st, San Francisco

JAMES WILFRED MCKINLEY, B.S. (1922)  
706 Security bldg, Los Angeles

JOHN ALEXANDER BRITTON, Esq. (1930)  
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)  
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)  
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)  
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)  
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B. (1928)  
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)  
1631 Cimarron st, Los Angeles

JAMES MILLS, Esq. (1926)  
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1920)  
Fresno

OFFICERS OF THE REGENTS

His Excellency William Dennison Stephens  
President  
Sacramento  
Ralph Palmer Merritt, B.S.  
Comptroller  
220 California Hall, Berkeley  
Victor Hendricks Henderson, B.L.  
Secretary and Land Agent  
104 California Hall, Berkeley.

Mortimer Fleishhacker, Esq.  
Treasurer  
Anglo-California Trust Company, San Francisco  
Warren Olney, Jr., A.B., LL.B.  
Attorney  
1107 Merchants Exchange bldg, San Francisco

STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1917-18\*

*Agriculture:*

Regents Foster, Dickson, Jenks, Mills,  
and Perry

*Curriculum and Degrees:*

Regents Rowell, Moffitt, and Bowles.

*Finance:*

Regents Earl, Foster, Britton, Moffitt,  
Taussig, and, as Member Emeritus,  
Regent Hellman

*Grounds and Buildings:*

Regents Britton, Mrs. Hearst, Jenks,  
Bowles, and C. S. Wheeler

*Lick Observatory:*

Regents Ramm, McEnerney, Young, and  
Crocker

*Medical Instruction:*

Regents Crocker, Moffitt, Ramm, Dickson,  
and Taussig

*Scripps Institution for Biological Research:*

Regents Dickson, McKinley, and Hyatt.

*University Hospital:*

Regents Crocker, Taussig, Britton, Earl,  
and Moffitt

*Wilmerding School:*

Regents Taussig, Earl, and Moffitt

*Executive Committee:*

This committee consists of the chairmen  
of all standing committees

---

\* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

## ADMINISTRATIVE OFFICERS

The offices of the President, Secretary, Comptroller, Recorder, Appointment Secretary, and Manager of the University Press are open from 9 a.m. to 5 p.m. on week days, except on Saturday, when they close at 12 m.

The University Library is open from 8 a.m. to 10 p.m., Monday to Saturday, inclusive; and from 9 a.m. to 5 p.m., Sunday. Vacation schedule: Monday to Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 12 m.; closed Sunday.

The Infirmary is open daily, except Saturday afternoons and Sundays, from 8 to 10 a.m. and from 5 to 6 p.m. for men; and from 10 a.m. to 12 m. and from 8 to 4 p.m. for women. Sundays and holidays (by appointment), 9 to 10 a.m. for men; 10 to 11 a.m. for women. Dentists' hours: daily, excepting Sundays, 9 a.m. to 12 m.; 1 to 5 p.m. Oculists' hours: daily, excepting Thursdays and Sundays, 9 to 10 a.m. for men; 10 to 11 a.m. for women.

## IN BERKELEY

*President of the University:*

Dr. Benjamin Ide Wheeler  
217 California Hall

*Secretary to the President:*

Mr. Newton B. Drury  
217 California Hall

*Secretary of the Regents and Land Agent:*

Mr. Victor H. Henderson  
104 California Hall

*Comptroller:*

Mr. Ralph P. Merritt  
220 California Hall

*Assistant to the Comptroller:*

Mr. Robert G. Sproul  
220 California Hall

*Secretary to the Comptroller:*

Mrs. M. L. B. Graham  
303 California Hall

*Deans in the Academic Colleges:**The Faculties:*

Professor H. R. Hatfield  
217 California Hall

*The Graduate Division:*

Professor Armin O. Leuschner  
201B California Hall

*The Lower Division:*

Professor Thomas M. Putnam  
207 California Hall

*The Summer Session:*

Professor Walter M. Hart  
209 California Hall

*Women:*

Professor Lucy W. Stebbins  
205 California Hall

*Letters and Science:*

Professor George P. Adams  
207 California Hall

*Agriculture:*

Professor Thomas F. Hunt  
112 Agriculture Hall

*Mechanics:*

Professor Clarence L. Cory  
38 Mechanics Building

*Mining:*

Professor Andrew C. Lawson  
221 Hearst Mining Building

*Civil Engineering:*

Professor Charles Derleth, Jr.  
204 Civil Engineering Building

*Chemistry:*

Professor Gilbert N. Lewis  
412 Chemistry Building

*Commerce:*

Professor Henry R. Hatfield  
28 Wheeler Hall.

*Director of the School of Architecture:*

\*Professor John Galen Howard  
Architecture Building

*Director of the School of Education:*

Professor Alexis F. Lange  
103 California Hall

*Director of the School of Jurisprudence:*

Professor Wm. Carey Jones  
212 Boalt Hall of Law

*Recorder of the Faculties:*

Mr. James Sutton  
204 California Hall

*University Examiner:*

Professor B. M. Woods  
201A California Hall

*University Physician:*

Professor Robert T. Legge  
Infirmary

*Physician for Women:*

Professor Romilda P. Meads  
Infirmary

*Director of University Extension:*

Professor Ira W. Howerth  
301 California Hall

\* Absent on leave, 1917-18.

## Administrative Officers

11

### ADMINISTRATIVE OFFICERS IN BERKELEY—(Continued)

#### *Appointment Secretary:*

Mrs. May L. Cheney  
102 California Hall

#### *Librarian:*

Mr. Joseph C. Rowell  
Library

#### *Associate Librarian:*

Mr. Harold L. Leupp  
Library

#### *Superintendent of the University Printing*

*Office:*  
Mr. Joseph W. Flinn  
Printing Office

#### *Manager of the University Press:*

Mr. Morse A. Cartwright (Acting Manager to August 21)  
University Press

#### *Superintendent of Grounds and Buildings:*

Mr. E. A. Hugill  
Superintendent's Office

#### *Alumni Secretary:*

Mr. H. Roney  
114 California Hall

### AT MOUNT HAMILTON

#### *Director of the Lick Observatory:*

Dr. William W. Campbell  
Lick Observatory, Mount Hamilton

### IN SAN FRANCISCO

#### *Treasurer of the Regents:*

Mortimer Fleishhacker, Esq.  
Anglo-California Trust Co.

#### *Attorney for the Regents:*

Warren Olney, Jr., Esq.  
Merchants' Exchange bldg

#### *California School of Fine Arts:*

Dean: Professor Leo Lentelli  
California and Mason sts

#### *Hastings College of the Law—*

Dean: Professor Edward R. Taylor  
City Hall

Registrar: Mr. George J. Martin  
928 Pacific bldg

#### *\*Medical School—*

Dean: Professor Herbert C. Moffitt  
U C Medical School

#### *College of Dentistry—*

Dean: Professor Guy S. Millberry  
U C College of Dentistry

#### *California College of Pharmacy—*

Dean: Professor Franklin T. Green  
California College of Pharmacy

#### *Superintendent of the University Hospital*

H. T. Summersgill  
U C Hospital

### IN LOS ANGELES

#### *† Los Angeles Medical Department—*

Dean: Professor George H. Kress  
245 Bradbury bldg.

\* The work of the first year and part of the second year of the Medical School is done in Berkeley.

† Graduate instruction only is offered in the Los Angeles Medical Department.

THE UNIVERSITY COMPRISES THE FOLLOWING COLLEGES AND  
DEPARTMENTS

I. IN BERKELEY

The Colleges of

Letters and Science,  
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, the Laboratory of Plant Pathology at Whittier, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, "Whitaker's Forest" in Tulare County, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,  
Mining,  
Civil Engineering,  
Chemistry.

The Schools of

Architecture,  
Education,  
Jurisprudence,

Medicine (first year and part of second year).

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction, etc., giving guidance and suggestion to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Education, Agronomy, Pomology, Landscape Gardening and Floriculture, Viticulture, Enology, Soils and Fertilizers, Agricultural Chemistry, Nutrition, Citriculture, Genetics, Olericulture, Experimental Irrigation, Animal Husbandry, Poultry Husbandry, Veterinary Science, Dairy Industry, Farm Mechanics, Ento-



mology, Forestry, Horticulture, Parasitology, Plant Pathology, and Rural Institutions), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics, Education, English, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Jurisprudence, Latin, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Romanic Languages, Sanskrit, Semitic Languages, Slavic Languages, Zoology.

## II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

## III. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

## IV. IN SAN FRANCISCO

California School of Fine Arts,

Hastings College of the Law,

Medical School, part of the second year, and the third, fourth, and fifth years, including the University Hospital,

The George Williams Hooper Foundation for Medical Research,

College of Dentistry,

California College of Pharmacy,

The Museum of Anthropology, Archaeology, and Art.

## V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.

## VI. AT DAVIS

The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

## VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

## VIII. AT WHITTIER

The Laboratory of Plant Pathology.

## IX. AT LA JOLLA

The Scripps Institution for Biological Research.

## X. AT PACIFIC GROVE

The Herzstein Research Laboratory of Biology.

## XI. AT SWANTON

The Summer School of Surveying.

## ACADEMIC SENATE

The Faculties of the University, together with the Instructors, constitute by law the Academic Senate.

Following is the Academic Senate as of date July 1, 1917.

The names, excepting those of the President and Secretary, are arranged in groups as follows: (1) Professors and Astronomers; (2) Associate Professors, the University Librarian, the Associate Librarian, and the Recorder of the Faculties; (3) Assistant Professors and Assistant Astronomers; (4) Lecturers; (5) Instructors—and are arranged in each group in the order of original appointment to the present rank. In cases where the appointments of two or more members took effect on the same date, the names are arranged alphabetically, punctuated by commas.

The asterisk (\*) marks the names of members who are absent on leave, 1917-18; †, in residence first half-year only; ‡, in residence second half-year only.

BENJAMIN IDE WHEELER, President of the University, Chairman  
JAMES SUTTON, Recorder of the Faculties, Secretary

## PROFESSORS

BERNARD MOSES.  
WILLIAM B. LEWITT.  
ALBIN PUTZKE.  
ROBERT A. McLEAN.  
CHARLES M. GAYLEY.  
WILLIAM W. CAMPBELL.  
FREDERICK SLATE.  
FRANKLIN T. GREEN.  
EDWARD B. CLAPP.  
RICHARD H. TUCKER.  
CORNELIUS B. BRADLEY,  
WM. CAREY JONES,  
WILLIAM A. MERRILL.  
WILLIAM A. SETCHELL.  
JOHN FRYER.  
EDWARD J. WICKSON.  
CURTIS H. LINDLEY.  
WILLIAM F. SHARP.  
ANDREW C. LAWSON.  
JOSEPH D. HODGEN.  
HERBERT C. MOFFITT.  
CLARENCE L. CORY.  
HUGO K. SCHILLING.  
THOMAS W. HUNTINGTON.  
WILLIAM E. RITTER.  
H. MORSE STEPHENS.

\*JOHN G. HOWARD,  
ALEXIS F. LANGE.  
ALBERT SCHNEIDER.  
JAMES G. SHARP.  
EDWARD R. TAYLOR.  
WALTER E. MAGEE.  
HEBER D. CURTIS.  
HENRY B. CAREY.  
MELLEN W. HASKELL.  
ROBERT G. AITKEN,  
ARMIN O. LEUSCHNER,  
ORRIN K. McMURRAY.  
EDMOND O'NEILL.  
GEORGE L. BEAN.  
CHARLES DERLETH, Jr.,  
MYER E. JAFFA,  
E. PERCIVAL LEWIS,  
GUY S. MILLBERRY,  
CARL C. PLEHN,  
GEORGE M. STRATTON,  
WILLIAM H. WRIGHT.  
ISAAC FLAGG,  
HENRY R. HATFIELD,  
CHARLES G. HYDE,  
†ROBERT H. LOUGHRIDGE,  
FREDERICK W. NISH.

† Died, July 1, 1917.

\*DAVID P. BARROWS.  
 GEORGE O. EDWARDS,  
 FREDERICK P. GAY,  
 CHARLES A. KOFOID,  
 \*RUDOLPH SCHEVILL.  
 HERBERT E. BOLTON,  
 CHARLES H. RIEBER,  
 RALPH E. SMITH,  
 CHARLES W. WOODWORTH.  
 IRA W. HOWERTH,  
 JOSEPH N. LECOINTE,  
 GILBERT N. LEWIS,  
 JOHN O. MERRIAM,  
 HOWARD MORROW,  
 CHARLES L. SINGER, Jr.,  
 WALLACE I. TERRY.  
 JOHN T. NANCE.  
 THOMAS FORSYTH HUNT.  
 HERBERT J. WEBBER.  
 J. ELIOT COIT.  
 JOHN W. GREGG,  
 CHARLES F. SHAW.  
 HUBERT E. VAN NORMAN.  
 ERNEST B. BABCOCK,  
 FREDERICK T. BIOLETTI,  
 RICHARD G. BOONE,  
 JOHN S. BURD,  
 WARREN T. CLARKE,  
 JOHN W. GILMORE,  
 CLARENCE M. HARING,  
 ROBERT W. HARRISON,  
 CHARLES B. LIPMAN,  
 WILLIAM P. LUCAS,  
 CHARLES E. RUGH,  
 J. HENRY SINGER,  
 ALLEN H. SUGGETT,  
 GORDON H. TRUE.  
 JAMES T. BARRETT,  
 EDWIN H. MAUK.  
 GILBERT CHINARD,  
 ALFRED FORKE,

\*ALEXANDER M. KIDD,  
 GEORGE H. KRESS,  
 WALTER MULFORD,  
 GEORGE H. WHIPPLE,  
 FRITZ W. WOLL.  
 WALTER P. KELLEY.  
 ROBERT T. LEGGE.  
 DAVID T. MASON.  
 HERBERT M. EVANS,  
 FRANK W. LYNCH,  
 ELWOOD MEAD,  
 FRANCIS S. PHILBRICK,  
 HENRY J. QUAYLE,  
 HOWARD S. REED,  
 RALPH E. WILSON.  
 JAY B. DAVIDSON.  
 WILLIAM BOERICKE,  
 WILLIAM W. KEMP.  
 FRANK ADAMS,  
 GEORGE W. BUNNELL,  
 \*LINCOLN HUTCHINSON,  
 FRANK H. PROBERT,  
 T. BRAILSFORD ROBERTSON,  
 WILBUR A. SAWYER.  
 EDWARD ELLIOTT.  
 \*FRANCIS G. ALLINSON,  
 LEON D. BATCHELOR,  
 STUART DAGGETT,  
 BERNARD A. ETCHEVERRY,  
 FRANCIS S. FOOTE, JR.,  
 \*EUGENE A. GILMORE,  
 SUMNER A. HILL,  
 SAMUEL J. HOLMES,  
 GEORGE D. LOUDERBACK,  
 E. SPENCER MACKY,  
 LEO LENTELLI,  
 HENRY V. POOR,  
 \*WILLIAM K. PRENTICE,  
 LEE F. RANDOLPH,  
 CHESTER L. ROADHOUSE.

## ASSOCIATE PROFESSORS

JOSEPH O. ROWELL.  
 ERNEST A. HERSAM.  
 LEON J. RICHARDSON.  
 WILLIAM D. ARMES,  
 HERMANN KOWER,  
 \*WILLIAM J. RAYMOND,  
 \*CHAUNCEY W. WELLS.  
 RALPH S. MINOR.  
 JAMES T. ALLEN,  
 RUSSELL T. CRAWFORD,  
 MARTIN O. FLAHERTY,  
 ELMER E. HALL,  
 WALTER M. HART,

†DERRICK N. LEHMER,  
 HAROLD L. LEUPP,  
 SAMUEL S. MAXWELL,  
 WALTER C. BLASDALE,  
 WILLIS L. JEPSON.  
 \*ALFRED L. KROEBER,  
 CHARLES A. NOBLE,  
 GEORGE R. NOYES,  
 \*THOMAS H. REED,  
 \*FREDERICK J. TEGGART.  
 ARTHUR S. EAKLE,  
 KARL F. MEYER,  
 HAYDN M. SIMMONS,

† Absent on leave, July 1-September 1.

HERMANN J. WEBER.  
 \*HOWARD S. FAWCETT.  
 RULIFF S. HOLWAY,  
 WILLIAM T. HORNE,  
 ERWIN J. LEA,  
 ROBERT O. MOODY.  
 THOMAS M. PUTNAM.  
 ERNEST L. WALKER.  
 WALTER L. HOWARD.  
 JAMES SUTTON.  
 JOHN E. DOUGHERTY,  
 GUSTAVE FAUCHEUX,  
 WILLIAM B. HERMS,  
 WILLIAM G. HUMMEL,  
 MATTHEW C. LYNCH,  
 EUGENE I. MCCORMAC,  
 JESSICA B. PEIXOTTO,  
 WILLIAM POPPER,  
 BENEDIOT F. RABER,  
 GLANVILLE Y. RUSK,  
 WALTER S. WEEKS.  
 GEORGE P. ADAMS,  
 WILLIAM C. BRAY,  
 BERTRAM H. CROCHERON,

HARVEY M. HALL,  
 FRANK L. KLEEBERGER,  
 BENJAMIN P. KURTZ,  
 IVAN M. LINFORTH,  
 HARDOLPH WASTENEYS,  
 AUSTIN T. WRIGHT.  
 GEORGE H. HAET.  
 RICHARD L. ADAMS,  
 ALICE B. CHITTENDEN,  
 IRA B. CROSS,  
 J. FRANK DANIEL,  
 JOSEPH GRINNELL,  
 WILLIAM C. HAYS,  
 JOEL H. HILDEBRAND,  
 PATRICK B. KENNEDY,  
 ROBERT H. LOWIE,  
 CONSTANCE L. MACKY,  
 DAVID N. MORGAN,  
 LOUIS J. PARTOW,  
 GERTRUDE PARTINGTON,  
 CLARENCE PASCHALL,  
 STANLEY S. ROGERS,  
 LUCY W. STEBBINS.

#### ASSISTANT PROFESSORS

THOMAS F. SANFORD.  
 CHARLES C. JUDSON.  
 CLIFTON PRICE,  
 W. SCOTT THOMAS.  
 HERBERT O. NUTTING.  
 JAMES A. BALLENTINE.  
 JOHN T. OLARK.  
 \*HENRY C. BIDDLE.  
 LUDWIG J. DEMETER,  
 WALTER S. MORLEY.  
 JOHN H. McDONALD,  
 ARTHUR W. RYDER,  
 RICHARD F. SCHOLZ.  
 EDWARD BOOTH,  
 OLIVER M. WASHBURN.  
 WILLSON J. WYTHE.  
 CARLOS BRANSBY,  
 ARTHUR U. POPE.  
 GOLDEN W. BELL,  
 \*JEAN V. COOKE,  
 JOHN N. FORCE,  
 RICHARD C. HARRISON,  
 WILLIAM A. MORRIS.  
 JOHN I. THOMPSON.  
 ARTHUR C. ALVAREZ,  
 WARNER BROWN,  
 HERBERT E. CORY,  
 WILLIAM V. CRUESS,  
 \*NATHANIEL L. GARDNER,  
 FRED M. HAYES,  
 DENNIS R. HOAGLAND,  
 BEN A. MADSON,  
 WILLIAM F. MARTIN,

JOSEPH H. MOORE,  
 LESLIE T. SHARP,  
 CHARLES D. VON NEUMAYER,  
 THOMAS T. WATERMAN.  
 GUY R. STEWART.  
 JAMES W. NELSON.  
 THEODORE C. BURNETT.  
 O. J. KEEN,  
 \*RALPH T. STEVENS.  
 MERRITT B. PRATT.  
 SAMUEL H. BECKETT,  
 GEORGE L. BELL,  
 \*CHARLES E. BROOKS,  
 \*MAUDE CLEVELAND,  
 MONROE E. DEUTSCH,  
 PERCIVAL B. FAY,  
 SIDNEY T. HARDING,  
 PAUL L. HIBBARD,  
 THOMAS FRANCIS HUNT,  
 HERBERT B. LANGILLE,  
 CLARENCE I. LEWIS,  
 JOSEPH A. LONG,  
 SYLVANUS G. MORLEY,  
 WALTER E. PACKARD,  
 \*MARY F. PATTERSON,  
 FRANCIS B. SUMNER,  
 REUBEN S. TOUR,  
 LESLIE M. TURNER.  
 ROLAND S. VAILE.  
 ROBERT F. MILLER,  
 JACOB TRAUM.  
 WOODBRIDGE METCALF.  
 GEORGE H. EVANS,

- AGNES F. MORGAN.
- HERBERT W. ALLEN,
- DONALD BRUCE,
- HAROLD BRUNN,
- CHARLES E. CHAPMAN,
- IRA J. CONDIT,
- GEORGE W. COERNER,
- ADOLPHUS J. EDDY,
- IVAN O. HALL,
- ALBERT J. HOUSTON,
- HENRY A. MATTILL,
- ROMILDA P. MEADS,
- K. EUGEN NEUHAUS,
- FREDERICK E. PERNOT,
- ELIZABETH H. SMITH,
- RALPH H. TAYLOR,
- \* EDWIN C. VAN DYKE,
- BALDWIN M. WOODS.
- HAROLD L. BRUCE,
- VIRGIL O. BRYANT,
- ROY E. CLAUSEN,
- JOSEPHINE E. DAVIS,
- GEORGE E. EBBRIGHT,
- EDWARD O. ESSIG,
- WALTER S. FRANKLIN,
- WILLIAM F. GERIOKE,
- THOMAS H. GOODSPEED,
- EUGENE S. KILGORE,
- WILFRED F. LANGELEIR,

- WILLIAM B. PARKER,
- SAXTON T. POPE,
- CHESTER W. RUBEL,
- ALFRED SMITH,
- REGINALD K. SMITH.
- WILLIAM W. CORT.
- † TRUMAN D. THORPE.
- THOMAS A. THACHER,
- ALAN C. VAN FLEET.
- HARRY S. BAIRD,
- JAMES C. BRADLEY,
- GEORGE P. GRAY,
- WILLIAM H. HEILEMAN,
- ARTHUR H. HENDRICKSON,
- GEORGE W. HENDRY,
- CHARLES W. HOOPEE,
- RAMON JAEN,
- MILTON B. LENNON,
- HERBERT I. PRIESTLEY,
- MERLE RANDALL,
- MELVIN T. RHODES,
- ALICE ROHDE,
- HOWARD E. RUGGLES,
- LIONEL S. SCHMITT,
- THOMAS TAVERNETTI,
- WARREN P. TUFTS,
- EDWIN C. VOORHIES,
- LESTER C. UREN,
- JAMES L. WHITNEY.

#### LECTURERS

- LOUIS BARTLETT.
- ARTHUR G. TASHEIRA.
- WILLIAM E. COLEBY,
- ROBERT A. LEET,
- HERBERT T. MOORE,
- MAURICE E. HARRISON,
- ALLAN P. MATTHEW.
- MARTIN A. MEYER.
- ARNOLD A. D'ANCONA.
- JOHN F. FORBES,
- WILLIAM E. LELAND.
- JOHN U. CALKINS, Jr.,
- VACLAV H. PODSTATA,
- ROBERT L. RICHARDS.

- FAERNHAM P. GRIFFITHS.
- EMMA J. BRECK.
- CHESTER G. GILLESPIE,
- WILLIAM C. HASSLER,
- \* ALBERT M. MEADS,
- HERMAN H. PHLEGER,
- † PAUL A. SINSHEIMER.
- LUDWIK EHRLICH.
- IRVING FISHER,
- WILLIAM MACDONALD,
- CHARLES W. PORTER,
- VALENTINE SCHMIDT,
- HERBERT S. SHUEY,
- CHARLES E. TOWNSEND.

#### INSTRUCTORS

- TORSTEN PETERSSON.
- RACHAEL L. ASH,
- BENJAMIN A. BERNSTEIN.
- OTTO P. ROLLER.
- WILLIAM G. MOORE,
- ALFRED SOLOMON.
- RAYMOND B. ABBOTT,
- STURELA EINARSSON,
- MALCOLM GODDARD,
- GEORGE R. MACMINN.
- \* LEONARD BACON.
- BRUCE L. CLARK.

- THOMAS BUCK,
- FRIEDRICH C. H. FLOSSFEDER,
- JOHN E. GURLEY,
- FRANK IRWIN,
- YOSHI S. KUNO,
- WARREN C. PERRY,
- CLAYTON O. SMITH.
- WILLIAM F. BLAKE,
- LOUIS I. BREITSTEIN,
- ELMER F. DAVIS.
- WILLIAM GIRARD,
- EMILIO GOGGIO,

† Resigned August 15, 1917.

- GEORGE R. HUBBELL,  
 • CAROLINE B. SINGLETON,  
 PHILIP E. SMITH,  
 WILLIAM P. WILLARD.  
 \*CHARLES B. BENNETT,  
 JOHN S. BOLIN,  
 GEORGE A. COLEMAN,  
 WILLIAM W. LYMAN, Jr.,  
 WENDELL P. ROOP.  
 GEORGE E. GIBSON.  
 HOWARD B. FROST.  
 ALBERT L. BARROWS,  
 HUBERT L. BELTON,  
 \*GEORGE E. DICKIE,  
 WALTER H. DORE,  
 \*RUTH ELLIOTT,  
 CLARK R. GILES,  
 \*CARL L. HOAG,  
 ROSS C. INGRIM,  
 MEREDITH R. MILLER,  
 JACOB F. STEFFAN,  
 EDWARD G. STRICKLEN,  
 CLEMENT T. WISKOCIL,  
 • ROSALIND WULZEN.  
 STANLEY B. FREEBORN.  
 J. EVAN ARMSTRONG,  
 LEWIS S. MACE.  
 SAMUEL H. HURWITZ.  
 WILLIAM L. ARGO,  
 WALTER I. BALDWIN,  
 • OLGA BRIDGMAN,  
 LEROY H. BRIGGS,  
 ROSS J. BROWER,  
 DANIEL H. CAREY,  
 ARTHUR H. CHRISTIANSEN,  
 • LILLIAN D. CLARK,  
 • RUBY L. CUNNINGHAM,  
 CLIFFORD F. ELWOOD,  
 WILLIAM H. HANFORD,  
 HUBERT HEITMAN,  
 LLOYD T. JONES,  
 ADELEBERT W. LEE,  
 JACOB LOEWENBERG,  
 CHARLES S. MCCOWEN,  
 EARL L. MCGLASHAN,  
 JOHN A. MAGNI,  
 CHARLES B. MUSANTE,  
 HOWARD C. NAFFZIGER,  
 PERHAM W. NAHL,  
 LAWRENCE M. PRICE,  
 FRANZ SCHNEIDER,  
 NILES P. SEARLS,  
 FRANCIS V. SIMONTON,  
 EDWARD E. THOMAS,  
 HERBERT S. THOMSON,  
 BLAKE R. VANLEER,  
 FRANK HINMAN,  
 JAMES C. NEEL,  
 RICHARD W. HARVEY.  
 LLOYD N. ROBINSON.  
 • ANNIE H. ALLEN,  
 • VIVIA B. APPLETON,  
 HERMANN J. BAADÉ,  
 LOUIS BARNIER,  
 • FAYETTE W. BERTCH,  
 AUBREY BOYD,  
 ARTHUR G. BRODEUR,  
 CHARLES M. CONNER,  
 MELVIN E. CUMMINGS,  
 FREDERICK W. COZENS,  
 VALERE DE MARI,  
 J. ROY DOUGLAS,  
 HENRY O. EGGERT,  
 JULE B. FRANKENHEIMER,  
 • KATHERIN GILLESPIE,  
 EDWARD F. GLASSER,  
 GEORGE L. GREVES,  
 • SIGNE E. HAGELTHORN,  
 CHRISTIAN F. HAMFF,  
 KURT HELLER,  
 LOUIS P. HOWE,  
 GEORGE C. KREUTZER,  
 WYLLIE E. LLOYD,  
 FREDERICK R. MACAULAY,  
 • ELIZABETH MCGUIRE,  
 THOMAS C. MAYHEW,  
 • LILLIAN M. MOORE,  
 • EDNA L. ROOF,  
 HOMER L. SAMS,  
 • KATHERINE J. SCOTT,  
 HENRY H. SEVERIN,  
 CHARLES C. STAHLING,  
 EDWARD S. SUNDSTROM,  
 • ETHEL E. TAYLOR,  
 • AGATHA VAN ERP,  
 ALANSON WEEKS,  
 HENRY A. WEINLAND,  
 LEONARD J. FLETCHER.  
 OWEN F. BURGER,  
 STEPHEN L. DENNING,  
 RALPH P. ROYCE.  
 CARL NICHOLS.  
 RALPH D. ROBERTSON.  
 WALTER C. ALVAREZ,  
 EDWARD O. AMUNDSEN,  
 • KATHERINE BALL,  
 J. RAYMOND BEACH,  
 ELBRIDGE J. BEST,  
 HARRY M. BUTTERFIELD,  
 WILLIAM CHISLETT, JR.,  
 ARTHUR W. CHRISTIE,  
 ROBERT H. CLARK,  
 WALTER C. DEAN,  
 ELMER R. DEONG,  
 MAYNARD DIXON,  
 RICHARD J. DOWDALL,  
 ERMON D. EASTMAN,  
 E. CHARLES FLEISCHNER,  
 MALBONE W. GRAHAM,  
 EMIL GREBS,  
 ROY M. HAGEN,  
 ROBERT W. HODGSON,

*Academic Senate—Alphabetical List*

19

ABEL W. JOHNSON,  
STAFFORD L. JORY,  
ELBERT A. KINCAID,  
LOVELL LANGSTROTH,  
KARL C. LEEBRICK,  
JOHN V. LEONARD,  
FREDERICK C. LEWITT,  
HANS LISSER,  
JAMES W. MILLS,  
GUY MONTGOMERY,  
FERDINAND J. NEUBAUER,

PETER T. PETERSEN,  
LIONEL P. PLAYER,  
WORTH H. RODEBUSH,  
HENRY ROSSE,  
HERBERT S. SHUEY,  
WILLIAM L. SWEET,  
• ALICE P. TABOR,  
BURTON M. VARNEY,  
HARLEY R. WILEY,  
• MARY WOODFORD.

**ACADEMIC SENATE—ALPHABETICAL LIST**

Following is the Academic Senate as of date July 1, 1917, together with the names of those who were members July 1, 1916–June 30, 1917, but who ceased to be members at any time during that period. Where membership has expired the fact is stated in the list. The titles and other information have been corrected to July 1, 1917, or to the date when membership expired.

Officers of colleges or departments situated elsewhere than in Berkeley are designated by an abbreviation following the title, viz.: (D) College of Dentistry, (A) California School of Fine Arts, (H) Hastings College of the Law, (LO) Lick Observatory, (M) Medical School, (Ph) California College of Pharmacy, (HF) The George Williams Hooper Foundation for Medical Research, (R) Citrus Experiment Station and Graduate School of Tropical Agriculture.

The dagger (†) marks the names of members who are married.

Addresses given are in Berkeley unless stated to be elsewhere. The following abbreviations are used: S F, for San Francisco; O, for Oakland. The word "Local" used with telephone numbers denotes telephones on the University's private exchange; Bkly, Berkeley; Oakd, Oakland; Pied, Piedmont; Mer, Merritt; Mrkt, Market; Dgls, Douglas; Frkn, Franklin; Krny, Kearney; Pac, Pacific; Snst, Sunset; Grfld, Garfield; Valen, Valencia.

†Raymond Barrington Abbott, M.S., Instructor in Physics—B.S. University of California 1908, M.S. *ibid.* 1912—1803 Cedar st: Bkly 2084.

Elliot Quincy Adams, Ph.D., Instructor in Chemistry (to June 30, 1917)—B.S. Massachusetts Institute of Technology 1909, Ph.D. University of California 1914—2642 Bancroft way.

†Frank Adams, M.A., Professor of Irrigation Investigations—A.B. Stanford University 1901, M.A. University of Nebraska 1906—1811 Oakland av, P: Pied 7057W.

†George Plimpton Adams, Ph.D., Associate Professor of Philosophy and Dean of the College of Letters and Science—A.B. Harvard University 1903, M.A. *ibid.* 1907, Ph.D. *ibid.* 1912—Southdown av and Montrose st: Bkly 7012W.

†Richard Laban Adams, M.S., Associate Professor of Agronomy—B.S. Massachusetts Agricultural College 1905, B.S. Boston University 1905, M.S. University of California 1910—6220 Hillegass av, O: Pied 5379W.

†Robert Grant Aitken, M.A., Sc.D., Astronomer (LO)—A.B. Williams College 1887, M.A. *ibid.* 1892, Sc.D. (Honorary) University of the Pacific 1903, Williams College 1917—Mt. Hamilton.

Annie Harriet Allen, M.A., Instructor in Public Speaking—A.B. University of California 1901, M.A. *ibid.* 1903—2237 Ellsworth st.

†Herbert Williams Allen, B.S., M.D., Assistant Clinical Professor of Medicine (M)—B.S. University of California 1896, M.D. Johns Hopkins University 1900—240 Stockton st, S F: Dgls 3600.

†James Turney Allen, Ph.D., Associate Professor of Greek—A.B. Pomona College 1895, M.A. University of California 1896, Ph.D. Yale University 1898—37 Mosswood rd: Bkly 1209W.

†Francis Greenleaf Allinson, Ph.D., Sather Professor of Classical Literature for the first half-year, 1917–18—A.B. Haverford College 1876, M.A. *ibid.* 1879, A.B. Harvard University 1877, Ph.D. Johns Hopkins University 1880—Cloyne court: Bkly 4710.



- †Wade Dinsmore Alter, M.S., Instructor in Astronomy (to June 30, 1917)—B.S. Westminster College 1909, M.S. University of Pittsburgh 1910—1409 Henry st: Bkly 1192J.
- Arthur Carl Alvarez, B.S., Assistant Professor of Civil Engineering—B.S. University of California 1908—1909 Dwight way: Bkly 5356W.
- †Walter Clement Alvarez, M.D., Instructor in Research Medicine (M) (HF)—M.D. Cooper Medical College 1905—126 Stockton st, S F: Sutr 3428.
- †Edward Otto Amundsen, B.S., Instructor in Agricultural Extension—B.S. University of California 1914—East Auburn.
- Vivia Belle Appleton, A.B., M.D., Instructor in Pediatrics (M)—A.B. Cornell University 1901, M.D. Johns Hopkins University 1906—191 Frederick st, S F: Park 2060.
- †William Lind Argo, Ph.D., Instructor in Chemistry—A.B. University of Toronto 1911, M.A. *ibid.* 1912, Ph.D. University of California 1915—1545A Euclid av: Bkly 5086J.
- William Dallam Armes, M.L., Associate Professor of American Literature and Director of the Greek Theatre—Ph.B. University of California 1882, M.L. *ibid.* 1895—Faculty Club: Local 48 or Bkly 2855.
- Marjorie-John Armour, A.B., Instructor in Physical Education (to June 30, 1917)—A.B. University of California 1916—1712 Euclid av: Bkly 2015.
- †J. Evan Armstrong, A.B., Instructor in Stenography and Typewriting—A.B. University of California 1916—6416 Regent st, O: Pied 6585J.
- Rachael Leona Ash, B.S., M.D., Instructor in Pediatrics (M)—B.S. University of California 1896, M.D. *ibid.* 1899—240 Stockton st, S F: Grfd 341.
- †Hermann Joseph Baade, B.S., Instructor in Agricultural Extension—B.S. Oklahoma Agricultural and Mechanical College 1910—Chamber of Commerce, Napa.
- †Ernest Brown Babcock, M.S., Professor of Genetics—B.S. University of California 1905, M.S. *ibid.* 1912—1540 La Loma av: Bkly 4519.
- †Leonard Bacon, A.B., Instructor in English (absent on leave, 1917-18)—A.B. Yale University 1910—2247 Piedmont av: Bkly 6398.
- †Harry Silversides Baird, B.S., Assistant Professor of Dairy Industry—B.S. Kansas State Agricultural College 1911—University Farm, Davis.
- Walter Isaac Baldwin, M.D., Instructor in Orthopedic Surgery (M)—B.S. University of California 1907, M.D. *ibid.* 1911—135 Stockton st, S F: Sutr 2288.
- Katherine Ball, Instructor in Normal Art (A)—California and Mason sts, S F.
- †James Arthur Ballentine, A.B., Assistant Professor of Law (H)—A.B. Yale University 1896—585 Monadnock bldg, S F: Krny 621.
- †Louis Barnier, B. ès L., Instructor in French—B. ès L. University of France 1886—2578 California st, S F: Flmr 4260.
- †James Theophilus Barrett, Ph.D., Professor of Plant Pathology (R)—A.B. University of Illinois 1903, M.A. *ibid.* 1907, Ph.D. Cornell University 1910—Citrus Experiment Station, Riverside.
- †Albert Lloyd Barrows, Ph.D., Instructor in Zoology—B.S. Pomona College 1906, M.S. University of California 1912, Ph.D. *ibid.* 1917—1309 Spruce st: Bkly 1006J.
- †David Prescott Barrows, Ph.D., LL.D., Professor of Political Science (absent on leave first half-year, 1917-18)—A.B. Pomona College 1894, M.A. University of California 1895, Ph.D. University of Chicago 1897, LL.D. Pomona College 1914—2738 Garber st: Bkly 3774J.
- †Louis de Fontenay Bartlett, Ph.B., LL.B., Lecturer in Dental Jurisprudence (D)—Ph.B. University of California 1893, LL.B. *ibid.* 1896—2434 Warring st: Bkly 569.
- †Leon Dexter Batchelor, Ph.D., Professor of Plant Breeding (R)—B.S. New Hampshire College of Agriculture and the Mechanic Arts 1907, Ph.D. Cornell University 1911—Citrus Experiment Station, Riverside.
- †J. Raymond Beach, D.V.M., Instructor in Veterinary Science—D.V.M. Cornell University 1913—University Farm, Davis.

- †George Lusk Bean, D.D.S., Professor of Dental Porcelain (D)—D.D.S. Philadelphia Dental College 1897—350 Post st, S F: Sutr 289.
- †Samuel Hume Beckett, B.S., Assistant Professor of Irrigation Practice—B.S. University of California 1909—University Farm, Davis.
- †Clair Hadyn Bell, M.L., Instructor in German (resigned June 30, 1917)—B.L. University of California 1908, M.L. ibid. 1909—2249 College av: Bkly 7436W.
- †George Lewis Bell, B.L., LL.B., Assistant Professor of Law (H)—B.L. University of California 1909, LL.B. Harvard University 1912—2118 Marin av: Bkly 2063W.
- Golden Woolfolk Bell, B.L., LL.B., Assistant Professor of Law (H)—B.L. University of California 1907, LL.B. Harvard University 1910—722 Kohl bldg, S F: Sutr 5381.
- †Hubert Logan Belton, Instructor in Shopwork—University Farm, Davis.
- Charles Barrows Bennett, Ph.D., Instructor in Biochemistry (M) (absent on leave, first half year, 1917-18)—Ph.B. Brown University 1906, M.A. and M.S. ibid. 1910, Ph.D. University of California 1912—Physiology Laboratory: Local 29.
- Benjamin Abram Bernstein, Ph.D., Instructor in Mathematics—A.B. Johns Hopkins University 1905, Ph.D. University of California 1913—2131 Haste st: Bkly 3401.
- †Elbridge John Best, M.D., Instructor in Medicine (M)—B.S. University of California 1908, M.D. ibid. 1911—209 Post st, S F: Sutr 290.
- †Henry Chalmers Biddle, Ph.D., Assistant Professor of Chemistry (absent on leave 1917-18)—A.B. Monmouth College 1891, Ph.D. University of Chicago 1900—University Cottage No. 1: Bkly 4764W.
- †Frederic Theodore Bioletti, M.S., Professor of Viticulture and Enology—B.S. University of California 1894, M.S. ibid. 1898—Walnut Creek.
- Fayette W. Birch, M.D., Instructor in Surgery (M)—St. Luke's Hospital, S F.
- †Earl Drayson Bisbee, B. S. A., Instructor in Brain Industry (resigned May 31, 1917)—B.S.A. Iowa State College 1913—University Farm, Davis.
- †William Ford Blake, A.B., M.D., Instructor in Ophthalmology (M)—A.B. Stanford University 1896, M.D. Cooper Medical College 1902—516 Sutter st, S F: Grfd 229.
- †Walter Charles Blasdale, Ph.D., Associate Professor of Chemistry—B.S. University of California 1892, M.S. ibid. 1896, Ph.D. ibid. 1900—2514 College av: Bkly 5146J.
- George Boas, Ph.D., Instructor in Public Speaking (resigned June 30, 1917)—A.B. Brown University 1913, M.A. ibid. 1913, M.A. Harvard University 1915, Ph.D. University of California 1917—2704 Virginia st: Bkly 4695W.
- †William Boericke, M.D., Clinical Professor of Homeopathic Materia Medica (M)—M.D. Hahnemann Medical College of Philadelphia 1880—391 Sutter st, S F: Dgls 4163.
- †George Henry Boke, M.A., LL.B., Professor of Law (to June 30, 1917; absent on leave, 1916-17)—Ph.B. University of California 1894, M.A. Harvard University 1900, LL.B. ibid. 1905.
- †John Siegfried Bolin, M.A., Instructor in Education—A.B. Stanford University 1912, M.A. University of California 1915—1913 Addison st.
- †Herbert Eugene Bolton, Ph.D., Professor of American History and Acting Curator of the Bancroft Library—B.L. University of Wisconsin 1895, Ph.D. University of Pennsylvania 1899—1526 Scenic av: Bkly 5764.
- †Richard Gause Boone, Ph.D., Professor of Education—M.A. (Honorary) De Pauw University 1884, Ph.D. University of Ohio 1890—2831 Benvenue av: Bkly 6848.
- †Edward Booth, Ph.B., Assistant Professor of Chemistry—Ph.B. University of California 1877—2810 Woolsey st: Bkly 8104.
- George Bowden, A.B., Lecturer in Voice Culture (to June 30, 1917)—A.B. Cambridge University—Chateau Bohlig, S F: Grfd 2249.
- Aubrey Boyd, M.A., Instructor in English—M.A. Glasgow University 1914—Kittredge apts: Bkly 7029.
- †Cornelius Beach Bradley, M.A., Professor of Rhetoric, Emeritus—A.B. Oberlin College 1868, M.A. ibid. 1887—2639 Durant av: Bkly 4126W.

- †James Chester Bradley, Ph.D., Assistant Professor of Entomology (Exchange Professor from Cornell University)—A.B. Cornell University 1906, Ph.D. *ibid.*, M.S. University of California 1907.
- †Gerald Eyre Kirkwood Branch, Ph.D., Instructor in Chemistry (resigned June 30, 1917)—B.S. University of Liverpool 1911, M.S. *ibid.* 1912, Ph.D. University of California 1915—1530A Hawthorne ter.
- Carlos Branaby, M.A., Litt.D., Assistant Professor of Spanish—M.A. Lafayette College 1883, Litt.D. *ibid.* 1903—2636 Channing way: Bkly 861.
- †William Crowell Bray, Ph.D., Associate Professor of Chemistry—A.B. University of Toronto 1902, Ph.D. Leipzig 1905—2708 Virginia st: Bkly 2259W.
- Emma Josephine Breck, Ph.B., Lecturer in the Teaching of English—Ph.B. University of Chicago 1903—3003 Summit st, O: Oakd 2802.
- †Louis Isador Breitstein, B.S., M.D., Instructor in Obstetrics and Gynecology (M)—B.S. and M.D. University of California 1903—350 Post st, S F: Dgls 404.
- Olga Louise Bridgman, M.D., Ph.D., Instructor in Pediatrics (M), Instructor in Mental Abnormalities of Childhood—A.B. University of Michigan 1908, M.D. *ibid.* 1910, M.A. University of California 1914, Ph.D. *ibid.* 1915—1238 Arguello blvd, S F: Snst 2371.
- †LeRoy Hewitt Briggs, M.D., Instructor in Medicine (M)—M.D. University of California 1908—240 Stockton st, S F: Dgls 8600.
- †Arthur Gilchrist Brodeur, Ph.D., Instructor in English Philology—A.B. Harvard University 1909, M.A. *ibid.* 1911, Ph.D. *ibid.* 1916—2617 Virginia st: Bkly 1709J.
- †Charles E. Brooks, Ph.D., Assistant Professor of Insurance (absent on leave first half-year, 1917-18)—A.B. Johns Hopkins University 1900, Ph.D. *ibid.* 1904—4517 Indiana av, Chicago, Ill.
- †Ross J. Brower, B.S., Instructor in Drawing—B.S. University of California 1900—2232 Haste st: Bkly 149W.
- †Warner Brown, Ph.D., Assistant Professor of Psychology—A.B. University of California 1904, M.A. *ibid.* 1905, Ph.D. Columbia University 1908—2558 Benvenue av: Bkly 6410J.
- †Donald Bruce, M.F., Assistant Professor of Forestry—A.B. Yale University 1906, M.F. *ibid.* 1910—1528 Scenic av: Bkly 5411J.
- Harold Lawton Bruce, Ph.D., Assistant Professor of English Composition—B.L. University of California 1908, M.L. *ibid.* 1911; Ph.D. Yale University 1915—2529 Hilgard av: Bkly 2261.
- †Harold John Bruhns, D.D.S., Clinical Instructor in Operative Dentistry (D) (to June 30, 1917)—D.D.S. University of California 1913—322 Clement st, S F: Pac 5296.
- †Harold Brunn, M.D., Assistant Clinical Professor of Surgery (M)—M.D. University of Pennsylvania 1895—Butler bldg, S F: Sutter 531.
- †Virgil Clay Bryant, M.S., Assistant Professor of Agricultural Extension—B.S. Kansas Agricultural College 1910, M.S. University of California 1911—3011 Hillegass av: Bkly 4257W.
- Thomas Buck, Ph.D., Instructor in Mathematics—B.S. University of Maine 1901, Ph.D. University of Chicago 1909—Faculty Club: Local 28 or Bkly 2855.
- †George Woodbury Bunnell, M.A., Professor of Greek, Emeritus—M.A., College of California 1866, Harvard University 1867—2901 Telegraph av, O: Oakd 5150.
- †John Sedgwick Burd, B.S., Professor of Agricultural Chemistry—B.S. University of California 1899—2750 Prince st: Bkly 4069J.
- †Owen Francis Burger, M.S., Sc.D., Instructor in Plant Pathology (R)—A.B. Indiana University 1909, M.A. University of Florida 1911, M.S. Harvard University 1915, Sc.D. *ibid.* 1916—Citrus Experiment Station, Riverside.
- †Theodore Cr  t   Burnett, M.D., Assistant Professor of Physiology (M)—M.D. Columbia University 1887—Hotel Shattuck: Bkly 7300.
- Harry Morton Butterfield, M.S., Instructor in Agricultural Education—B.S. University of California 1914, M.S. *ibid.* 1916—2201 Ellsworth st: Bkly 6037W.

John Peter Buwalda, Ph.D., Instructor in Geography (to June 30, 1917)—B.S. University of California 1912, Ph.D. ibid. 1915—Yale University, New Haven, Conn.

†John Uberto Calkins, Jr., J.D., Lecturer in Commercial Law—B.L. University of California 1911, J.D. ibid. 1913—2807 Piedmont av: Bkly 1461J.

Mary Whiton Calkins, M.A., Litt. D., LL.D., Lecturer in Philosophy on the Mills Foundation (to December 31, 1916)—A.B. Smith College 1885, M.A. ibid. 1887, LL.D. ibid. 1910, Litt.D. Columbia University 1909—Wellesley, Massachusetts.

†William Wallace Campbell, Sc.D., LL.D., Director of the Lick Observatory and Astronomer (LO)—B.S. University of Michigan 1886, M.S. ibid. 1899, Sc.D. Western University of Pennsylvania 1900, LL.D. University of Wisconsin 1902, Sc.D. University of Michigan 1905—Mt. Hamilton.

Daniel Henry Carey, B.S., Instructor in Floriculture and Superintendent of Greenhouses and Gardens—B.S. Massachusetts Agricultural College 1906—2400 Durant av: Bkly 7954.

†Henry Benjamin Carey, B.S., M.D., Professor of Botany, Materia Medica, and Physiology (Ph.), Instructor in Anatomy and Histology, Materia Medica and Therapeutics (D)—B.S. University of Minnesota 1900, M.D. Northwestern University 1905—1294 Ninth av, S F: Snt 1014.

†Charles Edward Chapman, Ph.D., Assistant Professor of Latin-American and California History—A.B. Tufts College 1902, LL.B. Harvard University 1905, M.A. University of California 1909, Ph.D. ibid. 1915—2423 Hilgard av: Bkly 1700W.

†Charles Gilbert Chinard, B.ès L., L.ès L., Professor of French—B.ès L. Université de Poitiers 1899, L.ès L. Université de Bordeaux 1902—2805 Kelsey st: Bkly 4426W.

William Chislett, Jr., Ph.D., Instructor in English.

Alice Brown Chittenden, Associate Professor of Drawing and Painting (A)—2201 California st, S F: West 4898.

†Arthur Hansen Christiansen, B.S., Instructor in Agricultural Extension—B.S. University of California 1911—319 G st, Eureka.

†Arthur William Christie, M.S., Instructor in Agricultural Chemistry—B.S. University of California 1915, M.S. ibid 1916—2029 Berkeley way: Bkly 6321W.

†Edward Bull Clapp, Ph.D., LL.D., Professor of the Greek Language and Literature, Emeritus—A.B. Illinois College 1875, M.A. ibid. 1878, LL.D. ibid. 1914, Ph.D. Yale University 1886—2636 Dwight way: Bkly 491W.

†Bruce Lawrence Clark, Ph.D., Instructor in Palaeontology—B.S. Pomona College 1908, M.S. University of California 1909, Ph.D. ibid. 1914—2318 Hilgard av: Bkly 3343W.

†John Taggart Clark, Ph.D., Assistant Professor of Romanic Philology—A.B. Harvard University 1898, M.A. ibid. 1899, Ph.D. ibid. 1901—2314 Russell st: Bkly 218.

Lillian Dora Clark, Instructor in Agricultural Extension—2110 Hearst av: Bkly 1908.

Robert Hazeltine Clark, A.B., Instructor in English—A.B. University of California 1916—11 El Camino Real: Bkly 6798W.

†Warren Thompson Clarke, B.S., Professor of Agricultural Extension and Superintendent of Farmers' Institutes—B.S. University of California 1903—2317 Le Conte av: Bkly 1930.

†Roy Elwood Clausen, Ph.D., Assistant Professor of Genetics—B.S. Oklahoma Agricultural and Mechanical College 1910, B.S. University of California 1912, Ph.D. ibid. 1914—212 Treehaven apts: Bkly 8495W.

Maud Cleveland, M.A., Director of Women's Gymnasium and Assistant Professor of Physical Education (absent on leave, first half-year, 1917-18)—B.L. University of California 1909, M.A. Stanford University 1913—Care, American Express, Paris, France.

†J. Eliot Coit, Ph.D., Professor of Citriculture—B.Agr. North Carolina College of Agriculture and Mechanic Arts 1903, M.S. Cornell University 1905, Ph.D. ibid. 1907—2500 Durant av: Bkly 9004J.

- †William Edward Colby, LL.B., Lecturer on Law of Mines and Water—LL.B. University of California 1898—2901 Channing way: Bkly 1773.
- †George Albert Coleman, M.A., Instructor in Entomology and Curator of the Agricultural Museum—A.B. Stanford University 1903, M.A. *ibid.* 1905—924 Spruce st: Bkly 7732W.
- †Ira Judson Condit, B.S., Assistant Professor of Citriculture—B.S. Ohio State University 1905—908 Indian Rock av: Bkly 7646W.
- †Charles M. Conner, B.S., Instructor in Agricultural Extension—B.S.A. University of Missouri 1891—B.S. Michigan Agricultural College 1892—Box 877, Modesto.
- †Jean Valjean Cooke, A.B., M.D., Assistant Professor of Pathology (D) (M)—A.B. Yale University 1904, M.D. Johns Hopkins University 1908—289 Edgewood av, S F: Park 5312.
- †George Washington Corner, A.B., M.D., Assistant Professor of Anatomy (M)—A.B. Johns Hopkins University 1909; M.D. *ibid.* 1913—428 Treehaven apts: Bkly 3129W.
- †William Walter Cort, Ph.D., Assistant Professor of Zoology—A.B. Colorado College 1909, M.A. University of Illinois 1911, Ph.D., *ibid.* 1914—1327 Walnut st: Bkly 7985J.
- †Clarence Linus Cory, M.M.E., D.Eng., John W. Mackay, Jr. Professor of Electrical Engineering, Consulting Electric Lighting and Heating Engineer, and Dean of the College of Mechanics—B.M.E. Purdue University 1889, M.M.E. Cornell University 1891, D. Eng. Purdue University 1914—2438 Warring st: Bkly 2641.
- Herbert Ellsworth Cory, Ph.D., Assistant Professor of English—A.B. Brown University 1906, Ph.D. Harvard University 1910—2558 Buena Vista way: Bkly 4014.
- †Frederick Warren Cozens, A.B., Instructor in Physical Education—A.B. University of California 1915—2523 Virginia st: Bkly 3531J.
- †Russell Tracy Crawford, Ph.D., Associate Professor of Practical Astronomy—B.S. University of California 1897, Ph.D. *ibid.* 1901—2740 Hillegass av: Bkly 4730W.
- Bertram Hanford Crocheron, M.S.A., Associate Professor of Agricultural Extension—B.S.A. Cornell University 1908, M.S.A. *ibid.* 1909—37 Euclid apts: Bkly 6058W.
- †Ira Brown Cross, Ph.D., Associate Professor of Economics on the Flood Foundation—A.B. University of Wisconsin 1905, M.A. *ibid.* 1906, Ph.D. Stanford University 1909—1418 LeRoy av: Bkly 4157.
- †William Vere Cruess, B.S., Assistant Professor of Zymology—B.S. University of California 1911—2333 Channing way.
- †James Gordon Cumming, M.S., M.D., Dr.P.H., Assistant Clinical Professor of Preventive Medicine and Hygiene (M), Director, Bureau of Communicable Diseases, State Hygienic Laboratory (to June 30, 1917)—M.D. University of Michigan 1903, M.S. *ibid.* 1913, Dr.P.H. Harvard University 1914.
- †Melvin Earl Cummings, Instructor in Modeling—3966 Clay st, S F: Pac 1715.
- Ruby Lacy Cunningham, M.D., M.S., Instructor in Hygiene and Assistant Physician for Women—B.S. University of California 1903, M.S. *ibid.* 1912, M.D. *ibid.* 1914—2536 College av: Bkly 1974.
- †Heber Doust Curtis, Ph.D., Astronomer (LO)—A.B. University of Michigan 1892, M.A. *ibid.* 1893, Ph.D. University of Virginia 1902—Mt. Hamilton.
- †Stuart Daggett, Ph.D., Professor of Railway Economics on the Flood Foundation—A.B. Harvard University 1903, M.A. *ibid.* 1904, Ph.D. *ibid.* 1906—1427 Hawthorne ter: Bkly 7530W.
- †Arnold Abraham D'Ancona, A.B., M.D., Lecturer in Forensic Medicine (M)—A.B. University of California 1880, M.D. *ibid.* 1884—862 Shrader st, S F: Mrkt 5967.
- †John Franklin Daniel, Ph.D., Associate Professor of Zoology—B.S. University of Chicago 1906, Ph.D. Johns Hopkins University 1909—1421 Hawthorne ter: Bkly 3327.
- †Jay Brownlee Davidson, A.E., Professor of Agricultural Engineering—B.S., M.E. University of Nebraska 1904, A.E. *ibid.* 1914—University Farm, Davis.

- †Elmer Fred Davis, Ph.D., Instructor in Mineralogy and Geology—B.S. University of California 1910, M.S. *ibid.* 1912, Ph.D. *ibid.* 1917—1807 Francisco st.
- Josephine Emma Davis, M.A., Assistant Professor of Household Science—A.B. Pomona College 1908, M.A. Teachers College, Columbia University 1913.
- Walter Carleton Dean, B.S., Instructor in Soil Technology—B.S. University of California 1915—2436 Ninth av, O: Mer 1465.
- †Valere de Mari, Instructor in Water Coloring and Pen and Ink Drawing—251 Post st, S F: Krny 3829.
- †Ludwig Joseph Demeter, M.A., Assistant Professor of German—M.A. Harvard University 1907.
- Stephen Louis Denning, B.S., Instructor in Dairy Industry—B.S. University of Idaho 1915—University Farm, Davis.
- †Elmer Ralph deOng, B.S., Instructor in Entomology—B.S. University of California 1915—University Farm, Davis.
- †Charles Derleth, Jr., B.S., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering—B.S. College of the City of New York 1894, C.E. Columbia University 1896—2834 Webster st: Bkly 293.
- †Monroe Emanuel Deutsch, Ph.D., Assistant Professor of Latin—A.B. University of California 1902, M.A. *ibid.* 1903, Ph.D. *ibid.* 1911—2826 College av: Bkly 8226J.
- †George Edward Dickie, B.L., Instructor in Military Science and Tactics (absent on leave, first half-year, 1917-18)—B.L. University of California 1906—1569 Jackson st, O: Oakd 2231.
- Maynard Dixon, Instructor in Illustration (A)—728 Montgomery st, S F.
- Stanley Loftus Dod, D.D.S., Instructor in Dental Pathology and Therapeutics (D) (to June 30, 1917)—D.D.S. University of California 1909—414 Butler bldg, S F: Suttr 2132.
- Walter Harrington Dore, B.S., Assistant Chemist in Fertilizer Control—B.S. University of California 1907—1811 Stuart st: Bkly 2732.
- †John Edwin Dougherty, B.S.A., Associate Professor of Poultry Husbandry—B.S.A. Cornell University 1911—University Farm, Davis.
- †James Roy Douglas, Ph.D., Instructor in Political Science—B.L. University of California 1913, M.L. *ibid.* 1914, Ph.D. *ibid.* 1917—2626 College av: Bkly 6176W.
- †Richard John Dowdall, Ph.G., M.D., Instructor in First Aid and Military Hygiene (Ph)—Ph.G. University of California 1894, M.D. Cooper Medical College 1901—240 Stockton st, S F: Grfd 446.
- Newton Bishop Drury, B.L., Instructor in Public Speaking (to June 30, 1917)—B.L. University of California 1912—1520 Euclid av: Bkly 4606W.
- †Arthur Starr Eakle, Ph.D., Associate Professor of Mineralogy—B.S. Cornell University 1892, Ph.D. University of Munich 1896—1518 Euclid av.
- †Ermon Dwight Eastman, Ph.D., Instructor in Chemistry—B.S. University of California 1913, M.S. *ibid.* 1914, Ph.D. *ibid.* 1917—Euclid apts: Bkly 6622.
- George Elliott Ebright, M.D., Assistant Clinical Professor of Medicine (M)—M.D. University of California 1899—209 Post st, S F: Sutter 290.
- †Adolphus James Eddy, B.S., Assistant Professor of Civil Engineering—B.S. University of California 1910—902 San Benito rd: Bkly 6850W.
- †George Cunningham Edwards, Ph.B., Professor of Mathematics—Ph.B. University of California 1873—2546 Dana st: Bkly 1613.
- Merwin Guy Edwards, M.A., Instructor in Mineralogy (to June 30, 1917)—A.B. University of Wisconsin 1912, M.A. *ibid.* 1913—2436 Channing way: Bkly 8286W.
- Henry Otto Eggert, D.D.S., Clinical Instructor in Operative Dentistry (D)—D.D.S. University of California 1914—850 Post st, S F: Grfd 257.
- Ludwik Ehrlich, D. Jur., Lecturer in Political Science—D. Jur. Lwów 1912, B.Litt. Oxford University 1915—Faculty Club—Local 28 or Bkly 2855.
- †Sturla Einarsson, Ph.D., Instructor in Practical Astronomy—A.B. University of Minnesota 1905, Ph.D. University of California 1913—1307 Bay View pl: Bkly 8031W.

- †Edward Elliott, Ph.D., Professor of Politics and International Law—A.B. Princeton University 1897, M.A. *ibid.* 1900, Ph.D. Heidelberg 1902—33 Canyon rd: Bkly 7894.
- Ruth Elliott, A.B., Instructor in Physical Education—A.B. Smith College 1912—2704 Channing way: Bkly 8352.
- Clifford Franklin Elwood, B.S., Instructor in Agricultural Extension—B.S. Massachusetts Agricultural College 1904—2618 Durant av: Bkly 8699.
- †Edward Oliver Essig, M.S., Assistant Professor of Entomology—B.S. Pomona College 1909, M.S. *ibid.* 1912—910 Hilldale av: Bkly 7962W.
- †Bernard Alfred Etcheverry, B.S., Professor of Irrigation Engineering—B.S. University of California 1902—2598 Buena Vista way: Bkly 8366.
- †George Herbert Evans, M.D., Assistant Clinical Professor of Medicine (M)—M.D. Detroit College of Medicine 1891 283 Post st, S F: Dgls 456.
- †Herbert McLean Evans, M.D., Professor of Anatomy (M)—B.S. University of California 1904, M.D. Johns Hopkins University 1908—2617 LeConte av: Bkly 8626W.
- Katherine Jewell Everts, B.S., Lecturer in Vocal Interpretation (to June 30, 1917) B.S. University of Minnesota—Pomfret, Connecticut.
- †Harold Wellman Fairbanks, Ph.D., Lecturer on California Physiography (to June 30, 1917)—B.S. University of Michigan 1890, Ph.D., University of California 1896—1204 Tamalpais av: Bkly 7486.
- Ernest Henry Falconer, M.D., Instructor in Medicine (M) (resigned July 31, 1917)—M.D. C.M. McGill University 1911—516 Sutter st, S F: Grfd 1903.
- Gustave Faucheux, B. ès L., B. ès Sc., Associate Professor of French Literature—B. ès L. Université de Paris 1869, B. ès Sc. *ibid.* 1870—2642 Bancroft way: Bkly 653.
- †Howard Samuel Fawcett, M.S., Associate Professor of Plant Pathology (R) (absent on leave 1917-18)—B.S. Iowa State College 1905, M.S. University of Florida 1908—2033 Park av, Baltimore, Md.
- †Percival Bradshaw Fay, Ph.D., Assistant Professor of Romanic Philology—A.B. Haverford College 1909, Ph.D. Johns Hopkins University 1912—2508 Hillgard av: Bkly 1961W.
- †Irving Fisher, Ph.D., Hitchcock Lecturer for 1917-18—A.B. Yale University 1888, Ph.D. *ibid.* 1891—460 Prospect st, New Haven, Conn.
- Isaac Flagg, Ph.D., Professor of Greek, Emeritus—A.B. Harvard College 1864, Ph.D. Göttingen 1871—1200 Shattuck av.
- Martin Charles Flaherty, Ph.B., Associate Professor of Forensics—Ph.B. University of California 1896—3338 Twenty-third st, S F: Msn 3460.
- †Emanuel Charles Fleischner, M.D., Instructor in Pediatrics (M)—M.D. Yale University 1904—350 Post st, S F: Krny 97.
- †Leonard J. Fletcher, B.S., Instructor in Agricultural Engineering—B.S. Iowa State College 1915—University Farm, Davis.
- Friedrich Carl Hermann Flossfeder, Instructor in Viticulture and Superintendent of Grounds—University Farm, Davis.
- †Francis Seeley Foote, Jr., E.M., Professor of Railroad Engineering—E.M. Columbia University 1905—1541 Hawthorne ter: Bkly 8333.
- †John F. Forbes, C.P.A., Lecturer in Accounting—203 Crocker bldg, S F: Krny 5080.
- †John Nivison Force, M.D., M.S., Gr.P.H., Lecturer in Preventive Medicine and Hygiene (M), Assistant Professor of Epidemiology—B.S. University of California 1898, M.D. *ibid.* 1901, M.S. *ibid.* 1910, Gr.P.H. *ibid.* 1915—19 The Bridge rd: Bkly 8028.
- †Alfred Forke, LL.D., Agassiz Professor of Oriental Languages and Literature—LL.D. Rostock 1890—1840 Berryman st: Bkly 8150W.
- Jule B. Frankenheimer, A.B., M.D., Instructor in Medicine (M)—A.B. Stanford University 1896, M.D. Cooper Medical College 1898—240 Stockton st, S F: Grfd 332.

- †Walter Scott Franklin, M.D., Assistant Clinical Professor of Ophthalmology (M)—M.D. Cooper Medical College 1898—185 Stockton st, S F: Sutter 5252.
- †Stanley Barron Freeborn, B.S., Instructor in Entomology—B.S. Massachusetts Agricultural College 1914—2819 Garber st: Bkly 328J.
- †Howard Brett Frost, Ph.D., Instructor in Plant Breeding (R)—B.S.A. Cornell University 1908, M.S.A. *ibid.* 1910, Ph.D. *ibid.* 1913—Citrus Experiment Station, Riverside.
- John Fryer, LL.D., Professor of Oriental Languages, Emeritus—LL.D. Alfred University 1889—2620 Durant av: Bkly 7910.
- †Nathaniel Lyon Gardner, Ph.D., Assistant Professor of Botany (absent on leave first half-year, 1917-18)—B.S. University of Washington 1900, M.S. University of California 1903, Ph.D. *ibid.* 1906—care, Mrs. N. L. Gardner, Palo Alto.
- †Frederick Parker Gay, A.B., M.D., Professor of Pathology (M)—A.B. Harvard University 1897, M.D. Johns Hopkins University 1901—2347 Prospect st: Bkly 3271.
- †Charles Mills Gayley, Litt.D., LL.D., Professor of the English Language and Literature—A.B. University of Michigan 1878, Litt.D. Kenyon College 1900, LL.D. University of Glasgow 1901, University of Michigan 1904—2328 Piedmont av: Bkly 386.
- †Jacob Casson Geiger, M.Ph., M.D., Lecturer in Preventive Medicine and Hygiene (M), Assistant Director, Bureau of Communicable Diseases, State Hygienic Laboratory (to June 30, 1917)—M.Ph. Tulane University 1905, M.D. *ibid.* 1912—2712 Derby st: Bkly 5558J
- †William Frederick Gericke, M.S., Assistant Professor of Soil Chemistry—B.S.A. Iowa State College 1912, M.S. University of California 1915—1517 Scenic av.
- †George Ernest Gibson, Ph.D., Instructor in Chemistry—B.S. Edinburgh University 1907, Ph.D. Breslau 1911—2444 Hillside av: Bkly 1589W.
- Clark Ransom Giles, D.D.S., Instructor in Oral Anaesthesia (D)—D.D.S. University of California 1914—1963 Oak st, S F: Park 6424.
- †Chester Gordon Gillespie, B.S., Lecturer in Preventive Medicine and Hygiene (M)—B.S. University of California 1907—5454 Boyd av, O: Pied 5647J.
- Katherin Gillespie, Instructor in Decorative Design, Mechanical Drawing and Arts and Crafts (A)—3307 Clay st, S F: West 4228.
- †Eugene A. Gilmore, A.B., LL.B., Professor of Law (to December 31, 1917).
- †John Washington Gilmore, M.S.A., Professor of Agronomy—B.S. Cornell University 1898, M.S.A. *ibid.* 1906—1227 Bonita av: Bkly 8251.
- †William Girard, Ph.D., Instructor in French—B.L. University of Neuchâtel 1892, Lic. Theol. *ibid.* 1896, Ph.D. University of California 1915—1589 LeRoy av: Bkly 8387J.
- †Edward Frederick Glaser, Ph.G., M.D., Instructor in Ophthalmology (M)—Ph.G. Chicago College of Pharmacv 1886, M.D. Cooper Medical College 1895—391 Sutter st, S F: Dgls 4138.
- Malcolm Goddard, B.S., D.D.S., Instructor in Comparative Anatomy (D)—B.S. University of California 1906, D.D.S. *ibid.* 1909—Butler bldg, S F: Sutter 73.
- †Emilio Goggio, Ph.D., Instructor in Italian—A.B. Harvard University 1909, Ph.D. *ibid.* 1917, M.A. University of Toronto 1910—2415 Oregon st: Bkly 7031W.
- †Thomas Harper Goodspeed, Ph.D., Assistant Professor of Botany—A.B. Brown University 1909, Ph.D. University of California 1912—1415 Hawthorne ter: Bkly 4010.
- Harley Nathan Gould, Ph.D., Instructor in Zoology (to June 30, 1917)—A.B. Allegheny College 1910, M.A. Princeton University 1914, Ph.D. *ibid.* 1916—Faculty Club.
- †Malbone W. Graham, D.D., Instructor in Spanish—A.B. Princeton University 1889, D. D. Lenox College 1906—1639 Oxford st: Bkly 2594.
- †George Putnam Gray, M.S., Assistant Professor of Entomology and Chemist in Insecticide Laboratory—B.S. Pomona College 1910, M.S. University of California 1911—2612 Fulton st: Bkly 1039W.
- †Emil Grebs, Instructor in Commercial Art (A)—California and Mason sts, S F.



- †Franklin Theodore Green, Ph.G., Professor of Chemistry, Director of the Chemical Laboratories, and Dean of the California College of Pharmacy (Ph)—Ph.G. University of California 1882—500 Devisadero st, S F: Park 478.
- †John William Gregg, B.S., Professor of Landscape Gardening and Floriculture—B.S. Boston University 1904, B.S. Massachusetts Agricultural College 1904—2249 Glenn av: Bkly 2192.
- †George Lothaine Greves, M.S., Instructor in Electrical Engineering—B.S. University of Illinois 1918, M.S. University of California 1916—1608 Oxford st: Bkly 6240J.
- †Farnham Pond Griffiths, B.L., B.A. (Oxon.), Lecturer in Law—B.L. University of California 1906, B.A. (Jurisprudence) University of Oxford 1910—1902 Myrtle st, O: Lksd 1926.
- Grace Florence Griffiths, B.L., Instructor in Bacteriology (M) (to June 30, 1917)—B.L. University of California 1912—1828 Myrtle st, O: Oakd 4761.
- †Joseph Grinnell, Ph.D., Associate Professor of Zoology and Director of the California Museum of Vertebrate Zoology—A.B. Throop Polytechnic Institute 1897, M.A. Stanford University 1901, Ph.D. *ibid.* 1913—2811 College av: Bkly 6915J.
- †John Edwin Gurley, D.D.S., Instructor in Dental Chemistry (D)—D.D.S. University of California 1908—850 Post st, S F: Grd 2570.
- Signe Elizabeth Hagelthorn, Instructor in Physical Education—2325 Channing way: Bkly 619.
- Roy Maxwell Hagen, B.S., Instructor in Agricultural Extension—B.S. University of California 1915—2701 Hearst av: Bkly 2421.
- †Elmer Edgar Hall, Ph.D., Associate Professor of Physics—B.S. University of Southern California 1893, M.S. University of California 1896, Ph.D. Cornell University 1902—1501 LeRoy av: Bkly 1024W.
- †Harvey Monroe Hall, Ph.D., Associate Professor of Economic Botany and Assistant Botanist in Agricultural Experiment Station—B.S. University of California 1901, M.S. *ibid.* 1902, Ph.D. *ibid.* 1906—1615 LaLoma av: Bkly 4188.
- †Ivan Clifford Hall, A.B., M.S., Assistant Professor of Bacteriology (M)—Pd.B. Colorado State Normal School 1906, A.B. Colorado College 1908, M.S. University of California 1911—1634 Blake st.
- †Roswell Gray Ham, B.L., Instructor in English (to June 30, 1917)—B.L. University of California 1914—2529 Hilgard av.
- †Christian Frederick Hamff, M.A., Instructor in German—A.B. Southwestern University 1906, M.A. University of the South 1911—1542 Milvia st
- †William Henry Hanford, D.D.S., Instructor in Extracting (D)—D.D.S. University of California 1913—5427 Grove st, O: Pied 4377.
- Armin Carl Hansen, Assistant Professor of Drawing and Painting (A) (to June 30, 1917)—728 Montgomery st, S F.
- †Sidney T. Harding, B.S., Assistant Professor of Irrigation—B.S. University of Michigan 1905—2728 Haste st: Bkly 5392W.
- †Clarence Melvin Haring, D.V.M., Professor of Veterinary Science—D.V.M. New York State Veterinary College 1904—2317 Le Conte av: Bkly 1930.
- †Maurice Edward Harrison, J.D., Lecturer in Law—A.B. University of California 1908, J.D. *ibid.* 1910—2525 Etna st: Bkly 7026W.
- Richard Calhoun Harrison, A.B., LL.B., Assistant Professor of Law (H)—A.B. Harvard College 1890, LL.B. *ibid.* 1893—640 Mills bldg, S F: Dgls 799.
- †Robert Waite Harrison, A.B., LL.B., Professor of Law (H)—A.B. Harvard University 1895, LL.B. *ibid.* 1898—Humboldt Bank bldg, S F: Sutter 1935.
- †George H. Hart, M.D., D.V.M., Associate Professor of Veterinary Science—D.V.M. University of Pennsylvania 1903, M.D. George Washington University 1908—2821 Hillegass av: Bkly 2177J.
- †Walter Morris Hart, Ph.D., Associate Professor of English Philology and Dean of the Summer Session—A.B. Haverford College 1892, M.A. *ibid.* 1893, M.A. Harvard University 1901, Ph.D. *ibid.* 1903—2255 Piedmont av: Bkly 2078.

- †Richard Warren Harvey, M.S., M.D., Instructor in Neurology (M)—B.S. University of California 1901, M.S. *ibid.* 1910, M.D. *ibid.* 1913—211 Edgewood av, S F: Park 7095.
- †Mellen Woodman Haskell, Ph.D., Professor of Mathematics—A.B. Harvard University 1883, M.A. *ibid.* 1885, M.A. and Ph.D. Göttingen 1889—2019 Durant av: Bkly 1211.
- †William Charles Hassler, Ph.G., M.D., Lecturer in Preventive Medicine and Hygiene (M)—Ph.G. New York College of Pharmacy 1890, M.D. Cooper Medical College 1892—1085 Mission st, S F: Mrkt 1491.
- †Henry Rand Hatfield, Ph.D., Professor of Accounting on the Flood Foundation, Dean of the College of Commerce and Dean of the Faculties—A.B. Northwestern University 1892, Ph.D. University of Chicago 1898—2633 Le Conte av: Bkly 2302.
- Carlton J. H. Hayes, Ph.D., Acting Professor of History (to May 15, 1917)—A.B. Columbia University 1904, M.A. *ibid.* 1905, Ph.D., *ibid.* 1909—Columbia University, New York, N. Y.
- †Fred Montreville Hayes, D. V. M., Assistant Professor of Veterinary Science—D.V.M. Kansas State Agricultural College 1908—University Farm, Davis.
- William Charles Hays, B.S., Associate Professor of Architecture—B.S. University of Pennsylvania 1893—Cloyne Court: Bkly 4710.
- Edwin Daniel Hayward, B.S., Instructor in Civil Engineering (resigned June 30, 1917)—B.S. Massachusetts Institute of Technology 1914—2600 Hilgard av: Bkly 5747.
- †William Herman Helleman, M.S., Assistant Professor of Agricultural Extension—B.S. Iowa Agricultural College 1891, M.S. *ibid.* 1894—3 Masonic bldg, Wil-lows.
- †Hubert Heitman, D.D.S., Clinical Instructor in Operative Dentistry (D)—240 Stockton st, S F: Krny 282.
- †Kurt Heller, Ph.D., Instructor in German—Ph.D. Jena 1908—2214 Vine st: Bkly 3070W.
- Arthur Howard Hendrickson, B.S., Assistant Professor of Pomology—B.S. Michigan Agricultural College 1913—Faculty Club: Local 28 or Bkly 2855.
- George Whiting Hendry, B.S., Assistant Professor of Agronomy—B.S. Cornell University 1913—Faculty Club: Local 28 or Bkly 2855.
- †William Brodbeck Herms, M.A., Associate Professor of Parasitology—B.S. German Wallace College 1902, M.A. Ohio State University 1906—1424 LeRoy av: Bkly 3302.
- †Ernest Albion Hersam, B.S., Associate Professor of Metallurgy—B.S. Massachusetts Institute of Technology 1891—47 Arden rd: Bkly 1209J.
- †Paul Llewellyn Hibbard, B.S. Assistant Professor of Agricultural Chemistry—B.S. University of Nebraska 1892—R. F. D. No. 1, Hayward.
- †Joel Henry Hildebrand, Ph.D., Associate Professor of Chemistry—B.S. University of Pennsylvania 1903, Ph.D. *ibid.* 1906—1536 LeRoy av: Bkly 7764W.
- †Sumner Anson Hill, M.D., Clinical Professor of Applied Homeopathic Therapeutics—M.D. Hahnemann Medical College of Philadelphia 1910—806 Arguello blvd, S F.
- †Frank Hinman, A.B., M.D., Instructor in Urology (M)—A.B. Stanford University 1902, M.D. Johns Hopkins University 1906—516 Sutter st: Grfd 1902.
- Carl Leslie Hoag, M.S., M.D., Instructor in Physiology (D) (to December 31, 1917)—B.S. University of California 1909, M.S. *ibid.* 1910, M.D. *ibid.* 1912—City of Paris bldg, S F: Sutr 3428.
- Dennis Robert Hoagland, M.A., Assistant Professor of Agricultural Chemistry—A.B. Stanford University 1907, M.A. University of Wisconsin 1913—Faculty Club: Local 28 or Bkly 2855.
- †Joseph Dupuy Hodgen, D.D.S., Professor of Histology and Dental Pathology (D)—D.D.S. University of California 1887—240 Stockton st, S F: Dgls 216.
- †Robert Willard Hodgson, M.S., Instructor in Citriculture—B.S. University of California 1916, M.S. *ibid.* 1917—2714 Grove st.
- †Samuel Jackson Holmes, Ph.D., Professor Zoology—B.S. University of California 1893, M.S. *ibid.* 1894, Ph.D. University of Chicago 1897—1518 LeRoy av: Bkly 8450J.

†Ruliff Stephen Holway, A.B., M.S., Associate Professor of Physical Geography—A.B. Stanford University 1903, M.S. University of California 1904—2577 Buena Vista way: Bkly 1514.

Charles Warren Hooper, M.D., Assistant Professor of Research Medicine (HF) (M)—A.B. University of Kansas 1911, M.D. Johns Hopkins University 1914—Hooper Research Laboratory, S F: Snst 600.

†William Titus Horne, B.S., Associate Professor of Plant Pathology—B.S. University of Nebraska 1898—2547B Piedmont av.

†Albert Joshua Houston, B.L., M.D., Assistant Clinical Professor of Laryngology, Otology and Rhinology (M)—B.L. University of California 1895, M.D. Cooper Medical College 1898—850 Post st, S F: Dgls 361.

†John Galen Howard, Fellow of the American Institute of Architects, Professor of Architecture and Director of the School of Architecture (absent on leave, 1917-18)—1401 LeRoy av: Bkly 72.

†Walter Lafayette Howard, Ph.D., Associate Professor of Pomology—B.Agr. and B.S. University of Missouri 1901, M.S. *ibid.* 1903, Ph.D. University of Halle-Wittenberg 1906—University Farm, Davis.

Louis Philippe Howe, M.D., Instructor in Surgery (M)—M.D. University of California 1908—516 Sutter st, S F: Grfid 1903.

†Ira Woods Howerth, Ph.D., Professor of Education and Director of University Extension—A.B. Valparaiso University 1888, A.B. Harvard University 1893, M.A. University of Chicago 1894, Ph.D. *ibid.* 1897—1421 Scenic av: Bkly 7498W.

†George Holmes Howison, M.A., LL.D., Professor of Philosophy, Emeritus (died December 31, 1916)—A.B. Marietta College 1852, M.A. *honoris causa* *ibid.* 1855, LL.D. *ibid.* 1883, LL.D. University of Michigan 1909, LL.D. University of California 1914.

George Rucian Hubbell, M.D., Instructor in Radiography (D)—B.S. Napa College 1885, M.D. Cooper Medical College 1890—516 Sutter st, S F: Grfid 317.

†William Grandville Hummel, M.S., Associate Professor of Agricultural Education—B.S. University of Illinois 1907, M.S. University of California 1912—6118 Ocean View dr, O: Pied 5172J.

†Thomas Forsyth Hunt, D.Agr., Sc.D., Professor of Agriculture, Dean of the College of Agriculture, and Director of Agricultural Experiment Station—B.S. University of Illinois 1884, M.S. *ibid.* 1892, D.Agr. *ibid.* 1904, Sc.D. Michigan Agricultural College 1907—1800 Bushnell pl: Bkly 3239.

†Thomas Francis Hunt, B.S., Assistant Professor of Agricultural Extension and Assistant Superintendent of Farmers' Institutes—B.S. Massachusetts Agricultural College 1905—2644 Parker st: Bkly 8335J.

†Thomas Waterman Huntington, A.B., M.D., LL.D., Professor of Clinical Surgery, Emeritus (M)—A.B. University of Vermont 1871, M.D. Harvard University 1876, LL.D. University of Vermont 1918—516 Sutter st, S F: Grfid 1908.

Samuel Haymann Hurwitz, M.D., Instructor in Research Medicine (M)—M.D. Johns Hopkins University 1912—1019 Ashbury st, S F: Park 5947.

Lincoln Hutchinson, M.A., Professor of Commerce on the Flood Foundation, Dean of the College of Letters and Science (absent on leave, 1917-18)—Ph.B. University of California 1889, A.B. Harvard University 1893, M.A. *ibid.* 1898—Care, Bureau of Foreign and Domestic Commerce, Washington, D. C.

†Charles Gilman Hyde, B.S., Professor of Sanitary Engineering—B.S. Massachusetts Institute of Technology 1896—2579 Buena Vista way: Bkly 870.

†Ross Carnes Ingram, Instructor in Shopwork—University Farm, Davis.

†Frank Irwin, Ph.D., Instructor in Mathematics—A.B. Harvard University 1890, B.S. *ibid.* 1892, M.A. *ibid.* 1894, Ph.D. *ibid.* 1908—1625 Arch st: Bkly 4808J.

Ramón Jaén, LL.D., Assistant Professor of Spanish—A.B. Instituto Tecnico, Alicante, 1903, LL.D. Universidad Central, Madrid, 1913—2637 Rose st: Bkly 456.

- †Myer Edward Jaffa, M.S., Professor of Nutrition—Ph.B. University of California 1877, M.S. *ibid.* 1896—2637 Virginia st: Bkly 949.
- Willis Linn Jepson, Ph.D., Associate Professor of Dendrology—Ph.B. University of California 1889, Ph.D. *ibid.* 1898—2714 Benvenue av: Bkly 8927W.
- †Abel William Johnson, M.D., Instructor in Laryngology, Otology and Rhinology (M)—A.B. Bethany College 1897, M.A. *ibid.* 1899, M.D. Rush Medical College 1901—350 Post st, S F: Dgls 264.
- †Lloyd Theodore Jones, Ph.D., Instructor in Physics—A.B. Lake Forest College 1909, M.A. *ibid.* 1910, M.S. University of Illinois 1912, Ph.D. *ibid.* 1915—2541 Dwight way: Bkly 8628W.
- †William Carey Jones, M.A., Professor of Jurisprudence and Director of the School of Jurisprudence—A.B. University of California 1875, M.A. *ibid.* 1879—2625 Benvenue av: Bkly 7264J.
- Stafford Lelean Jory, Gr.Arch., Instructor in Architecture—B.S. University of California 1912, M.S. and Gr.Arch. *ibid.* 1914—1420 Scenic av.
- †Charles Chapel Judson, Assistant Professor of Antique Drawing—1590 LeRoy av: Bkly 8384W.
- †Walter Pearson Kelley, Ph.D., Professor of Agricultural Chemistry (R)—B.S. University of Kentucky 1904, M.S. Purdue University 1907, Ph.D. University of California 1912—Citrus Experiment Station, Riverside.
- †William Webb Kemp, Ph.D., Professor of School Administration—A.B. Stanford University 1898, Ph.D. Columbia University 1912—2517 Piedmont av: Bkly 6200J.
- †Patrick Beveridge Kennedy, Ph.D., Associate Professor of Agronomy—B.S.A. University of Toronto 1894, Ph.D. Cornell University 1899—1027 Peralta st: Bkly 7807W.
- †O. J. Kern, Assistant Professor of Agricultural Education—1329 Walnut st: Bkly 4203.
- †William Watt Kerr, M.A., M.B., C.M., Clinical Professor of Medicine (M) (died, April 26, 1917)—M.A. Edinburgh 1877, M.B. and C.M. *ibid.* 1881.
- †Cassius Jackson Keyser, Ph.D., Adrain Professor of Mathematics, Columbia University (exchange professor from Columbia University, to December 31, 1916)—B.S. University of Missouri 1892, LL.D. *ibid.* 1914, M.A. Columbia University 1896, Ph.D. *ibid.* 1901—Columbia University, New York, N. Y.
- Alexander Marsden Kidd, A.B., LL.B., Professor of Law (absent on leave, first half-year, 1917-18)—A.B. University of California 1899, LL.B. Harvard University 1903—849 Cherry st, S F: Pac 1636.
- †Eugene Sterling Kilgore, B.S., M.D., Assistant Clinical Professor of Medicine (M)—B.S. University of California 1904, M.D. Harvard University 1909—4025 Lyon av, O: Frvl 1522J.
- †Elbert Alvis Kincaid, M.A., Instructor in Economics—A.B. State College of Washington 1910, M.A. Harvard University 1911—917 Shattuck av: Bkly 403.
- †Frank Louis Kleeberger, M.A., Director of Men's Gymnasium and Associate Professor of Physical Education—B.S. University of California 1908, M.A. *ibid.* 1915—2520 Cedar st: Bkly 4000J.
- †Rudolph Alfred Kocher, M.D., Instructor in Research Medicine (HF) (resigned June 30, 1917)—A.B. Stanford University 1908, M.D. Johns Hopkins University 1912—1275 Seventh av, S F: Snst 2189.
- †Charles Atwood Kofoid, Ph.D., Sc.D., Professor of Zoology and Assistant Director of the Scripps Institution for Biological Research—A.B. Oberlin College 1890, M.A. Harvard University 1892, Ph.D. *ibid.* 1894, Sc.D. Oberlin College 1915—2616 Etna st: Bkly 1059.
- †Hermann Kower, C.E., Associate Professor of Drawing—C.E. Technische Hochschule, Stuttgart, 1884—5550 Broadway, O: Pied 5327J.
- †George Henry Kress, B.S., M.D., Dean of the Los Angeles Medical Department (M)—B.S. University of Cincinnati 1896, M.D. *ibid.* 1899—245 Bradbury bldg, Los Angeles.
- †George Charles Kreutzer, B.S., Instructor in Agricultural Extension—B.S. Colorado Agricultural College 1908—104 Court House, Bakersfield.

- Alfred Louis Kroeber, Ph.D., Associate Professor of Anthropology and Curator of the Anthropological Museum (absent on leave second half-year, 1917-18)—A.B. Columbia University 1896, M.A. ibid. 1897, Ph.D. ibid. 1901—2848 Washington st, S F: Flmr 1165.
- †Yoshi Saburo Kuno, M.S., Instructor in Japanese—B.S. University of California 1897, M.S. ibid. 1900—1184 Arch st.
- †Benjamin Putnam Kurtz, Ph.D., Associate Professor of English—A.B. University of California 1901, Ph.D. ibid. 1906—59 Santa Clara av, O: Oakd 6276.
- †Gordon Jennings Laing, Ph.D., Lecturer on the Sather Foundation (to March 31, 1917)—A.B. University of Toronto 1891, Ph.D. Johns Hopkins University 1896—University of Chicago, Chicago, Illinois.
- †Alexis Frederick Lange, Ph.D., Professor of the Theory and Practice of Education and Director of the School of Education—A.B. University of Michigan 1885, M.A. ibid. 1885, Ph.D. ibid. 1892—2601 LeConte av: Bkly 424.
- †Wilfred Francis Langeller, M.S., Assistant Professor of Sanitary Engineering—B.S. New Hampshire College 1909, M.S. University of Illinois 1911—2327 Cragmont av: Bkly 2925W.
- †Herbert Bamford Langille, A.B., Assistant Professor of Machine Design and Mechanical Drawing—A.B. Stanford University 1915—1522 Spruce st: Bkly 278J.
- †Lovell Langstroth, M.D., Instructor in Medicine (M)—A.B. Stanford University 1908, M.D. Cooper Medical College 1912—240 Stockton st, S F: Dgls 3600.
- †Andrew Cowper Lawson, Ph.D., Professor of Mineralogy and Geology, and Dean of the College of Mining—A.B. Toronto University 1888, M.A. ibid. 1885, Ph.D. Johns Hopkins University 1888—1515 La Loma av: Bkly 3812.
- †Erwin J. Lea, M.S., Associate Professor of Nutrition—B.S. Oregon Agricultural College 1898, M.S. ibid. 1900—2840 Parker st: Bkly 8901.
- †Joseph Nisbet LeConte, M.M.E., Professor of Engineering Mechanics—B.S. University of California 1891, M.M.E. Cornell University 1892—19 Hillside court: Bkly 4489.
- †Adelebert Watts Lee, M.D., Instructor in Dermatology (M)—M.D. University of California 1902—1107 Stanyan st, S F: Park 3208.
- †Karl Clayton Leebrick, Ph.D., Instructor in History—B.S. University of California 1911, M.S. ibid. 1913, Ph.D. ibid. 1917—2325 Howe st: Bkly 4786J.
- †Robert Andrew Leet, Ph.G., Lecturer on the Business Side of Pharmacy (Ph)—Ph.G. University of California 1891—1301 Broadway, O: Oakd 338.
- †Robert Thomas Legge, M.D., Professor of Hygiene and University Physician—Ph.G. University of California 1891, M.D. ibid. 1899—3016 Benvenue av: Bkly 2917J.
- †Derrick Norman Lehmer, Ph.D., Associate Professor of Mathematics (absent on leave July 1–September 1, 1917)—A.B. University of Nebraska, 1893, M.A. ibid. 1896, Ph.D. University of Chicago 1900—2736 Regent st: Bkly 9359J.
- †William Emmons Leland, B.S., Lecturer in Architectural Mechanics—B.S. Massachusetts Institute of Technology 1891—912 Indian Rock av: Bkly 2024.
- †Pedro Joseph Lemos, Professor of Design and Applied Arts and Director of the California School of Fine Arts (A) (to June 30, 1917)—363 Perry st, O: Oakd 3525.
- †Milton Byrne Lennon, M.A., M.D., Assistant Clinical Professor of Neurology (M)—A.B. St. Ignatius College 1897, M.A. Georgetown University, 1898, M.D. University of California 1901—135 Stockton st, S F: Krny 1859.
- †Leo Lentelli, Dean of the Faculty of the California School of Fine Arts and Professor of Sculpture (A)—2546 Greenwich st, S F: West 4113.
- †John Vaughan Leonard, M.D., Instructor in Urology (M)—M.D. University of California 1901—177 Post st, S F.
- William Lealie, B.S., Special Lecturer in Economics (to June 30, 1917)—B.S. University of California 1910—707 Twenty-seventh av, S F: Pac 7585.
- †Harold Lewis Leupp, A.B., Associate Librarian—A.B. Cornell University 1902—1830 San Juan av: Bkly 4639.

- †Armin Otto Leuschner, Ph.D., Sc.D., Professor of Astronomy, Director of the Students' Observatory, and Dean of the Graduate Division—A.B. University of Michigan 1888, Ph.D. University of Berlin 1897, Sc.D. (Honorary) Western University of Pennsylvania 1900, University of Michigan 1913—1816 Scenic av: Bkly 2182.
- †Clarence Irving Lewis, Ph.D., Assistant Professor of Philosophy—A.B. Harvard University 1906, Ph.D. *ibid.* 1910—25 Panoramic way: Bkly 1159.
- †Exum Percival Lewis, Ph.D., Professor of Physics—B.S. Corcoran Scientific School 1888, Ph.D. Johns Hopkins University 1895—27 Panoramic way: Bkly 1031.
- †Gilbert Newton Lewis, Ph.D., Professor of Physical Chemistry and Dean of the College of Chemistry—A.B. Harvard University 1896, M.A. *ibid.* 1898, Ph.D. *ibid.* 1899—2440 Hillside av: Bkly 7434W.
- †Frederick Clinton Lewitt, M.D., Instructor in Laryngology, Otology and Rhinology (M)—B.S. University of California 1906, M.D. *ibid.* 1908—291 Geary st, S F: Sutr 110.
- †William Breakey Lewitt, M.D., Professor of Pediatrics, Emeritus (M)—M.D. Detroit Medical College 1877, M.D. Columbia University 1878—210 Post st, S F: Sutr 494.
- †Lewis Lilly, A.B., Instructor in Accounting (to June 30, 1917)—A.B. University of Wisconsin 1914—University of Washington, Seattle, Wash.
- †Curtis Holbrook Lindley, LL.D., Honorary Professor of Law of Mines and Water—LL.D. University of Santa Clara 1912—Mills bldg, S F: Sutter 1116.
- †Ivan Mortimer Linforth, Ph.D., Associate Professor of Greek—A.B. University of California 1900, M.A. *ibid.* 1901, Ph.D. *ibid.* 1905—2238 Eunice st: Bkly 2830W.
- Charles Bernard Lipman, Ph.D., Professor of Soil Chemistry and Bacteriology—B.S. 1904 and M.S. 1909 Rutgers College, M.S. University of Wisconsin 1909, Ph.D. University of California 1910—Faculty Club: Local 28 or Bkly 2855.
- Hans Lissner, M.D., Instructor in Medicine (M)—A.B. University of California 1907, M.D. Johns Hopkins University 1911—516 Sutter st, S F: Grfd 317.
- Wylie Everett Lloyd, B.S.A., Instructor in Poultry Husbandry—B.S.A. West Virginia University 1911—University Farm, Davis.
- Jacob Loewenberg, Ph.D., Instructor in Logic—A.B. Harvard University 1908, M.A. *ibid.* 1909, Ph.D. *ibid.* 1911—2704 Virginia st: Bkly 4695W.
- †Joseph Abraham Long, Ph.D., Assistant Professor of Embryology—B.S. Harvard University 1904, M.A. *ibid.* 1905, Ph.D. *ibid.* 1908—1534 La Loma av: Bkly 7428W.
- †George Davis Louderback, Ph.D., Professor of Geology—A.B. University of California 1896, Ph.D. *ibid.* 1899—2713 Derby st: Bkly 3260.
- Robert Hills Loughridge, Ph.D., Professor of Agricultural Chemistry, Emeritus (died, July 1, 1917)—B.S. University of Mississippi 1871, Ph.D., *ibid.* 1877.
- Robert Heinrich Lowie, Ph.D., Associate Professor of Anthropology—A.B. College of the City of New York 1901, Ph.D. Columbia University 1908—Faculty Club: Local 28 or Bkly 2855.
- †William Palmer Lucas, A.B., M.D., Professor of Pediatrics (M)—A.B. Wooster University 1900, M.D. Western Reserve University 1905—2513 Pierce st, S F: Flmr 2562.
- William Whittingham Lyman, Jr., M.A., Instructor in Celtic and English—A.B. University of California 1907, M.A. *ibid.* 1908—11½ Panoramic way: Bkly 6966W.
- †Frank Worthington Lynch, A.B., M.D., Professor of Obstetrics and Gynecology (M)—A.B. Western Reserve University 1895, M.D. Johns Hopkins University 1899—2511 Broadway, S F: Flmr 4199.
- †Matthew Christopher Lynch, J.D., Associate Professor of Law—B.L. University of California 1906, J.D. *ibid.* 1908—2710 Durant av: Bkly 7780W.

- †Frank Farrington Lyons, B.S., Instructor in Agricultural Extension (to June 30, 1917)—B.S. University of California 1913—Home apts., Stockton.
- †Frederick Robertson Macaulay, M.A., LL.B., Instructor in Economics—A.B. University of Colorado 1909, M.A. ibid. 1910, LL.B. ibid. 1911—2442 Hilgard av: Bkly 1023J.
- †Eugene Irving McCormac, Ph.D., Associate Professor of American History—B.S. Upper Iowa University 1896, Ph.D. Yale University 1901—1404 Hawthorne ter: Bkly 2407W.
- †Charles S. McCowen, D.D.S., Clinical Instructor in Orthodontics (D)—Head bldg, S F: Grfd 958.
- John Hector McDonald, Ph.D., Assistant Professor of Mathematics—A.B. University of Toronto 1895, Ph.D. University of Chicago 1900—8136 Lewiston av.
- †William MacDonald, Ph.D., LL.D., Lecturer in Political Science.
- †Lewis Sayre Mace, M.D., Instructor in Medicine (M)—A.B. Stanford University 1896, M.D. New York University 1899—240 Stockton st, S F: Grfd 808.
- †Earl Leo McGlashan, D.D.S., Instructor in Orthodontic Technique (D)—D.D.S. University of California 1912—1296A Ninth av, S F: Snt 1061.
- Elizabeth McGuire, M.A., Instructor in Spanish—B.L., University of California 1903, M. A. ibid. 1916—1524 Hawthorne ter: Bkly 8240W.
- †Constance L. Macky, Associate Professor of Painting and Drawing (A)—178 Park Hill, S F: Park 2813.
- †E. Spencer Macky, Professor of Painting and Drawing (A)—535 Sacramento st, S F: Dgls 1505.
- †Robert Armistead McLean, M.D., Professor of Surgery, Emeritus (M)—M.D. University of California 1874—Cloyne court: Bkly 4710.
- †George Rupert MacMinn, A.B., Instructor in English—A.B. Brown University 1905.
- †Orrin Kip McMurray, LL.B., Professor of Law—Ph.B. University of California 1890, LL.B. ibid. 1893—2827 Le Conte av: Bkly 8978.
- †Ben Adolph Madson, B.S.A., Assistant Professor of Agronomy—B.S.A. Iowa State College 1907—University Farm, Davis.
- †Walter Edmund Magee, Professor of Physical Culture—Exeter.
- John Augustus Magni, Ph.D., Instructor in French—A.B. Central University 1891, M.A. University of Michigan 1894, Ph.D. Clark University 1909—Faculty Club: Local 28 or Bkly 2855.
- †John Albert Marshall, M.S., D.D.S., Instructor in Biochemistry (M) (to June 30, 1917)—B.S. University of California 1907, M.S. ibid. 1914, D.D.S. ibid. 1916—2519½ Durant av: Bkly 8705W.
- †William Franklin Martin, M.C.E., Assistant Professor of Engineering Mechanics—B.S. University of Texas 1903, C.E. ibid. 1904, M.C.E. Cornell University 1906—1054 Mariposa av: Bkly 8214W.
- †Xavier Martinez, Instructor of Drawing (A) (to June 30, 1917)—818 Scenic av, P: Pied 4359.
- †David Townsend Mason, M.F., M.S., Professor of Forestry—B.S. Rutgers College 1905, M.S. ibid. 1908, M.F. Yale University 1907—2625 LeConte av: Bkly 8626J.
- †Allen Pomeroy Matthew, A.B., LL.B., Lecturer on the Law of Public Utilities—A.B. University of California 1903, LL.B. George Washington University 1908—932 Mills bldg, S F: Sutr 1651.
- †Henry Albright Mattill, Ph.D., Assistant Professor of Nutrition—A.B. Western Reserve University 1906, M.A. ibid. 1907, Ph.D. University of Illinois 1910—2752 Piedmont av: Bkly 5888J.
- †Edwin Henry Mauk, D.D.S., Professor of Prosthetic Dentistry (D)—D.D.S. University of California 1901—1343 Third av, S F: Snt 3046.
- †Samuel Steen Maxwell, Ph.D., Associate Professor of Physiology (M)—B.S. Amity College 1886, M.S. ibid 1888, Ph.D. University of Chicago 1896—15 Hillside court: Bkly 1982.
- †Thomas Clay Mayhew, B.S., Instructor in Agricultural Extension—B.S. University of California 1912—Chamber of Commerce, Madera.

- †Elwood Mead, D.Eng., Professor of Rural Institutions—B.S. Purdue University 1882, M.S. *ibid.* 1884, D.Eng. *ibid.* 1904, C.E. Iowa State College 1883—6215 Chabot rd, O: Pied 4855.
- †Albert Manson Meads, M.D., Lecturer in Hygiene and Associate University Physician (absent on leave, 1917-18)—B.S. University of California 1905, M.D. *ibid.* 1908—2647 Stuart st: Bkly 4847.
- †Romilda Paroni Meads, B.S., M.D., Assistant Professor of Hygiene and Physician for Women—B.S. University of California 1903, M.D. *ibid.* 1907—2647 Stuart st: Bkly 4847.
- †John Campbell Merriam, Ph.D., Professor of Palaeontology and Historical Geology—B.S. Lenox College 1887, Ph.D. Munich 1893—2401 Bowditch st: Bkly 1908.
- †William Augustus Merrill, Ph.D., L.H.D., Professor of the Latin Language and Literature—A.B. Amherst College 1880, M.A. *ibid.* 1884, Ph.D. Ohio University 1893, L.H.D. Miami University 1893—2609 College av: Bkly 1790W.
- †Woodbridge Metcalf, M.S.F., Assistant Professor of Forestry—A.B. University of Michigan 1911, M.S.F. *ibid.* 1912—1525 Arch st: Bkly 4008W.
- †Karl Friedrich Meyer, A.B., D.V.M., Associate Professor of Tropical Medicine (HF) (M)—A.B. University of Zürich 1905, D.V.M. *ibid.* 1909—191 Fredrick st, S F: Park 7514.
- †Martin Abraham Meyer, Ph.D., Lecturer in Semitic Literature and History—A.B. University of Cincinnati 1899, B.D. Hebrew Union College 1901, Ph.D. Columbia University 1906—3108 Jackson st, S F: Flmr 666.
- †Guy Stillman Millberry, D.D.S., Professor of Dental Chemistry and Metallurgy and Dean of the College of Dentistry (D)—D.D.S. University of California 1901—University of California College of Dentistry, S F: Snst 414.
- †Mereditth Raines Miller, B.S., Assistant Chemist in Insecticide Control—B.S. University of California 1912—662 Sixty-sixth st, O: Pied 6205W.
- †Robert Frederick Miller, M.S.A., Assistant Professor of Animal Husbandry—B.S.A. Agricultural and Mechanical College of Texas 1909, M.S. Iowa State College 1912—University Farm, Davis.
- †Robert Andrews Millikan, Ph.D., Sc.D., Hitchcock Lecturer for 1916-17 (to January 26, 1917)—A.B. Oberlin College 1891, M.A. *ibid.* 1893, Ph.D. Columbia University 1895, Sc.D. Oberlin College 1911, Northwestern University 1913—5605 Woodlawn av, Chicago, Ill.
- †James William Mills, Instructor in Agricultural Extension—Court House, Fairfield.
- †Ralph Smith Minor, Ph.D., Associate Professor of Physics—A.B. Hamilton College 1898, M.A. *ibid.* 1901, Ph.D. Göttingen 1902—2614 Warring st: Bkly 1267W.
- †Herbert Charles Moffitt, B.S., M.D., Professor of Medicine and Dean of the Medical School (M)—B.S. University of California 1889, M.D. Harvard University 1894—University of California Hospital, S F: Snst 1155.
- †Guy Montgomery, M.A., Instructor in English—A.B. University of Nebraska 1909, M.A. University of California 1917—2 Edlington Court apts., Bkly 6769.
- †Robert Orton Moody, B.S., M.D., Associate Professor of Anatomy (M)—B.S. Cornell University 1891, M.D. Yale University 1894—2826 Garber st: Bkly 3058.
- †Herbert Turblitt Moore, A.B., D.D.S., Lecturer on Surgery (D)—A.B. University of California 1901, D.D.S. *ibid.* 1904—891 Sutter st, S F: Grfid 605.
- †Joseph Haines Moore, Ph.D., Assistant Astronomer (LO)—A.B. Wilmington College 1897, Ph.D. Johns Hopkins University 1903—Mt. Hamilton.
- Lillian Mary Moore, M.S., Instructor in Physiology (M)—B.S. University of California 1914, M.S. *ibid.* 1915—2736 Haste st: Bkly 8680.
- †William George Moore, M.D., Instructor in Obstetrics and Gynecology (M)—M.D. University of California 1900—177 Post st, S F: Dgls 5726.
- †Agnes Fay Morgan, Ph.D., Assistant Professor of Household Science—B.S. University of Chicago 1904, M.S. *ibid.* 1905, Ph.D. *ibid.* 1914—1429 LeRoy av: Bkly 5344W.



- †David Naffziger Morgan, B.S., Associate Professor of Agriculture and Assistant to the Director of Agricultural Experiment Station—B.S. University of California 1909—838 Indian Rock av: Bkly 5286.
- †Sylvanus Griswold Morley, Ph.D., Assistant Professor of Spanish—A.B. Tufts College 1898, M.A. Harvard University 1899, Ph.D. *ibid.* 1902—2585 Etna st: Bkly 955.
- †Walter Spangenberg Morley, B.S., Assistant Professor of Metallurgy—B.S. University of California 1898—2611 Piedmont av: Bkly 8023W.
- †William Alfred Morris, Ph.D., Assistant Professor of English History—A.B. Stanford University 1901, Ph.D. Harvard University 1907—2617 ½ Hillgass av: Bkly 5223.
- †Howard Morrow, M.D., Clinical Professor of Dermatology (M)—M.D. University of California 1896—Butler bldg, S F: Dgs 2897.
- †Bernard Moses, Ph.D., LL.D., Professor of History and Political Science, Emeritus—Ph.B. University of Michigan 1870, Ph.D. Heidelberg 1878, LL.D. University of Michigan 1902—Walnut Creek: Walnut 90F3.
- †Walter Mulford, B.S.A., F. E., Professor of Forestry—B.S.A. Cornell University 1899, F. E. *ibid.* 1901—1619 Spruce st: Bkly 2402W.
- †Charles Bernard Musante, D.D.S., Clinical Instructor in Dentistry (D)—D.D.S. University of California 1913—407 Phelan bldg, S F: Sutr 2599.
- Howard Christian Naffziger, M.S., M.D., Instructor in Surgery (M)—B.S. University of California 1907, M.D. and M.S. *ibid.* 1909—291 Geary st, S F: Sutr 1892.
- †Perham William Nahl, Instructor in Free-hand Drawing and Art Anatomy—6048 Harwood av, O: Pied 6016.
- †John Torrence Nance, Graduate of the United States Military Academy, Professor of Military Science and Tactics—2536 Piedmont av: Bkly 5957.
- †James Craig Neel, Ph.B., M.D., Instructor in Obstetrics and Gynecology (M)—Ph.B. Marietta College 1906, M.D. Johns Hopkins University 1910—1538 Seventh av, S F: Snst 1378.
- †James William Nelson, B.S., Assistant Professor of Soil Technology—B.S. Utah Agricultural College—17 Budd Hall.
- Ferdinand John Neubauer, Ph.D., Instructor in Astronomy—A.B. University of Oregon 1910, M.A. *ibid.* 1912, Ph.D. University of California 1917—2405 Telegraph av: Bkly 5414W.
- †Karl Eugen Neuhaus, Assistant Professor of Decorative Design—Graduate Elbfeld Realgymnasium, Prussia, 1895, graduate Royal Art School, Kassel, Germany, graduate Imperial Institute for Applied Arts, Berlin, 1903—2922 Derby st: Bkly 3262J.
- †Carl Nichols, M.S., Instructor in Agricultural Extension—B.S. University of California 1913, M.S. *ibid.* 1914—2307 Hearst av: Bkly 5263W.
- Frederick William Nish, Ph.D., Professor of Pharmacy and Director of the Pharmaceutical Laboratory (Ph)—Ph.G. University of California 1901, Ph.D. *ibid.* 1906—1022 Masonic av, S F: Park 5810.
- †Charles Albert Noble, Ph.D., Associate Professor of Mathematics and Assistant Examiner of Schools—B.S. University of California 1889, Ph.D. Göttingen 1901—2224 Piedmont av: Bkly 2533.
- †George Rapall Noyes, Ph.D., Associate Professor of Slavic Languages—A.B. Harvard University 1894, M.A. *ibid.* 1895, Ph.D. *ibid.* 1898—1434 Greenwood ter: Bkly 5603.
- †Herbert Chester Nutting, Ph.D., Assistant Professor of Latin—A.B. Yale University 1895, Ph.D. *ibid.* 1897—1425 Walnut st: Bkly 304.
- †Edmond O'Neill, Ph.B., Professor of Inorganic Chemistry and Director of the Chemical Laboratory—Ph.B. University of California 1879—2522 College av: Bkly 436W.
- Mabel Ingraham Otis, Instructor in Physical Education (to June 30, 1917)—2727 Durant av: Bkly 7588J.
- †Walter Eugene Packard, M.S., Assistant Professor of Agronomy and Experimental Agronomist in Charge of Imperial Valley Station—B.S. Iowa State College 1907, M.S. University of California 1909—El Centro.

- †Louis John Paetow, Ph.D., Associate Professor of Medieval History—B.L. University of Wisconsin 1902, M.L. *ibid.* 1908, Ph.D. University of Pennsylvania 1906—722 Arlington av: Bkly 2209W.
- †Carleton Hubbell Parker, Ph.D., Assistant Professor of Industrial Economy (to June 30, 1917; absent on leave, 1916-17)—B.S. University of California 1904, Ph.D. Heidelberg 1912—University of Washington, Seattle, Wash.
- †William Bell Parker, M.S., Assistant Professor of Agricultural Extension—B.S. University of California 1910, M.S. *ibid.* 1912—2701 Virginia st: Bkly 4050.
- Gertrude Partington, Associate Professor of Painting and Drawing (A)—737 Buena Vista av, S F: Park 7986.
- †Clarence Paschall, M.A., Associate Professor of German—A.B. Wittenberg College 1894, M.A. *ibid.* 1898, M.A. Harvard University 1901—2319½ Haste st: Bkly 3972W.
- Mary Frances Patterson, Assistant Professor of Household Art—1715 LaLoma av: Bkly 4844.
- Jessica Blanche Peixotto, Ph.D., Associate Professor of Social Economics—Ph.B. University of California 1894, Ph.D. *ibid.* 1900—Cloyne court: Bkly 3757.
- †Frederick Eugene Pernot, Ph.D., Assistant Professor of Electrical Engineering—B.S. Oregon Agricultural College 1910, M.S. University of California 1912, Ph.D. *ibid.* 1915.
- Warren Charles Perry, B.S., Instructor in Architecture—B.S. University of California 1907—2636½ Dwight way: Bkly 279W.
- †Peter T. Petersen, Instructor in Veterinary Science—1610 Sixty-fifth av, O: Frvl 2941W.
- †Torsten Petersson, Ph.D., Instructor in Latin—A.B. Harvard University 1901, M.A. *ibid.* 1902, Ph.D. *ibid.* 1905—2520 Hillegass av: Bkly 6147W.
- Francis Samuel Philbrick, Ph.D., LL.B., Professor of Law—B.S. University of Nebraska 1897, M.A. *ibid.* 1899, Ph.D. Harvard University 1902, LL.B. Columbia University 1913—Faculty Club: Local 28 or Bkly 2855.
- Herman Horatio Phleger, B.S., Lecturer in Law—B.S. University of California 1912—Crocker bldg, S F: Sutr 666.
- †Wilhelm Robert Richard Pinger, Ph.D., Assistant Professor of German (to June 30, 1917)—M.A. University of California 1905, Ph.D. *ibid.* 1908—1210 Shattuck av: Bkly 5804J.
- †Lionel Paget Player, Instructor in Urology (M)—516 Sutter st, S F: Grfld 889.
- †Carl Copping Plehn, Ph.D., LL.D., Professor of Finance on the Flood Foundation—A.B. Brown University 1889, M.A. and Ph.D. Göttingen 1891, LL.D. Brown University 1914—2808 Warring st: Bkly 1885.
- †Vaclav H. Podstata, M.D., Lecturer in Psychiatry (M)—Graduate Chicago Homeopathic Medical College 1895, M.D. University of Illinois 1900—Livermore.
- †Henry V. Poor, Professor of Painting and Drawing (A)—3417 Twenty-fourth st, S F.
- †Arthur Upham Pope, M.A., Assistant Professor of Philosophy—A.B. Brown University 1904, M.A. *ibid.* 1905—"High Acres," Creston rd: Bkly 8194J.
- †Saxton Temple Pope, M.D., Assistant Clinical Professor of Surgery (M)—M.D. University of California 1899—719 Butler bldg, S F: Sutr 3832.
- †William Popper, Ph.D., Associate Professor of Semitic Languages—A.B. Columbia University 1896, M.A. *ibid.* 1897, Ph.D. *ibid.* 1899—6 The Alameda: Bkly 3806.
- †Charles Walter Porter, Ph.D., Lecturer in Inorganic Chemistry—B.S. Agricultural College of Utah 1905, M.A. Harvard University 1909, Ph.D. University of California 1915.
- †Jean Paul Pratt, M.D., Instructor in Surgery (M) (to June 30, 1917)—A.B. Ohio State University 1906, M.D. Johns Hopkins University 1910—291 Geary st, S F: Sutr 1892.
- †Merritt Berry Pratt, B.S., M.F., Assistant Professor of Forestry—B.S. University of Chicago 1903, M.F. Yale University 1905—6305 College av, O: Pied 5268.
- †William Kelly Prentice, M.A., Sather Professor of Classical Literature for the second half-year 1917-18—A.B. Princeton University 1892, M.A. *ibid.* 1898.

- †Clifton Price, Ph.D., Assistant Professor of Latin—A.B. Cornell University 1889, Ph.D. Yale University 1896—23 Panoramic way: Bkly 1061W.
- †Lawrence Marsden Price, Ph.D., Instructor in German—A.B. and M.A. Tufts College 1903, Ph.D. University of Wisconsin 1911—2404 Cedar st: Bkly 8448J.
- †Herbert Ingram Priestley, Ph.D., Assistant Professor of History and Assistant Curator of the Bancroft Library—Ph.B. University of Southern California 1900, M.A. *ibid.* 1907, Ph.D. University of California 1917—1425 Arch st: Bkly 1878J.
- †Frank Holman Probert, A.R.S.M., Professor of Mining—Associate Royal School of Mines, London, 1897—28 Oakvale av: Bkly 8981.
- †Thomas Milton Putnam, Ph.D., Associate Professor of Mathematics and Dean of the Lower Division—B.S. University of California 1897, M.S. *ibid.* 1899, Ph.D. University of Chicago 1901—2740 Elmwood av: Bkly 8408J.
- †Albin Putsker, M.A., Professor of German Literature, Emeritus—M.A. Knox College 1892—2600 Telegraph av: Bkly 5148.
- †Henry Josef Quayle, A.B., M.S., Professor of Entomology (R)—A.B. University of Illinois 1903, M.S. University of California 1911—Citrus Experiment Station, Riverside.
- Benedict Frederick Raber, B.S., Associate Professor of Mechanical Engineering—B.S. Purdue University 1907—2027 Delaware st: Bkly 8712.
- †Merle Randall, Ph.D., Assistant Professor of Chemistry—A.B. University of Missouri 1907, M.A. *ibid.* 1909, Ph.D. Massachusetts Institute of Technology 1912—2636 Haste st: Bkly 1144W.
- †Lee F. Randolph, Professor of Painting, Drawing, and Anatomy; Director of the California School of Fine Arts (A)—1367 Post st, S F: Frkn 6691.
- †William James Raymond, B.S., Associate Professor of Physics—B.S. University of California 1887—2622 Piedmont av: Bkly 4807.
- †Howard Sprague Reed, Ph.D., Professor of Plant Physiology (R)—A.B. University of Michigan 1903, Ph.D. University of Missouri 1907—Riverside.
- †Thomas Harrison Reed, A.B., LL.B., Associate Professor of Government (absent on leave, 1917-18)—A.B. Harvard University 1901, LL.B. Harvard Law School 1904—City Hall, San Jose.
- †Melvin Thayer Rhodes, D.D.S., Assistant Professor of Clinical Operative Dentistry (D)—D.D.S. University of California 1908—First National Bank bldg: Bkly 4800.
- †Robert Lewis Richards, A.B., M.D., Lecturer in Psychiatry (M)—A.B. Ohio Wesleyan University 1891, M.D. University of Cincinnati 1894—Mendocino State Hospital, Talmage.
- †Leon Josiah Richardson, A.B., Associate Professor of Latin; Adjutant of the Intercollegiate Intelligence Bureau and Director for the State of California—A.B. University of Michigan 1890—2415 College av: Bkly 5115.
- †Charles Henry Rieber, Ph.D., Professor of Logic—A.B. University of California 1888, M.A. Harvard University 1889, Ph.D. *ibid.* 1900—15 Canyon rd: Bkly 1060.
- †William Emerson Ritter, Ph.D., Professor of Zoology and Scientific Director of the Scripps Institution for Biological Research—B.S. University of California 1888, M.A. Harvard University 1891, Ph.D. *ibid.* 1898—La Jolla.
- †Chester Linwood Roadhouse, D.V.M., Professor of Dairy Industry—D.V.M. Cornell University 1906—University Farm, Davis.
- †Ralph Denny Robertson, B.S., Instructor in Agricultural Extension—B.S. University of California 1908—445 W. Vine st, Stockton.
- †Thorburn Brailsford Robertson, Ph.D., Sc.D., Professor of Biochemistry (M)—B.S. Adelaide University, 1905, Sc.D. *ibid.* 1908, Ph.D. University of California 1907—2619 Regent st: Bkly 307.
- †Lloyd Nash Robinson, M.S., Instructor in Electrical Engineering—B.E. Union University 1911, M.S. University of California 1917—2906 Wheeler st: Bkly 4778J.
- Worth Huff Rodebush, Ph.D., Instructor in Chemistry—A.B. University of Kansas 1912, M.A. *ibid.* 1914, Ph.D. University of California 1917—2606 Bancroft way: Bkly 2617.

- †Stanley Sawyer Rogers, B.S., Associate Professor of Olericulture—B.S. Massachusetts Agricultural College 1906—University Farm, Davis.
- Alice Rohdé, M.D., Assistant Professor of Research Medicine (M) (HF)—M.D. Johns Hopkins University 1910—191 Frederick st, S F: Park 2806.
- †Otto P. Roller, D.D.S., Special Instructor in Dental Porcelain (D)—D.D.S. Pennsylvania College of Dental Surgery 1895—Consolidated Realty bldg, Los Angeles.
- Edna Lee Roof, B.L., Instructor in Physical Education—B.L. Pomona College 1908.
- †Wendell Prescott Roop, A.B., Instructor in Physics—A.B. Stanford University 1907—2523 Etna st: Bkly 3223J.
- Robert Selden Rose, Ph.D., Instructor in Spanish (to June 30, 1917)—A.B. Yale University 1909, Ph.D. University of California 1915.
- Henry Rosse, Instructor in Interior Decoration and Design (A)—California and Mason sts, S F.
- †Joseph Cummings Rowell, M.A., Librarian—A.B. University of California 1874, M.A. ibid 1903—3415 West st, O: Pied 5264.
- †Ralph Patterson Royce, B.S., Instructor in Animal Husbandry—B.S. University of Missouri 1914—University Farm, Davis.
- †Chester Wirt Rubel, B.S.A., Assistant Professor of Agricultural Extension—B.S.A. Iowa State College 1904—1563 LeRoy av.
- †Howard Edwin Ruggles, A.B., M.D., Assistant Clinical Professor of Roentgenology (M)—A.B. Stanford University 1907, M.D. Harvard University 1913—233 Post st, S F: Sutr 4620.
- †Charles Edward Rugh, M.L., Professor of Education—A.B. Stanford University 1903, M.L. University of California 1907—2223 Atherton st: Bkly 6680.
- †Glanville Yeisley Rusk, A.B., M.D., Associate Professor of Pathology (M)—A.B. Johns Hopkins University 1896, M.D. ibid. 1900—17 Panoramic way: Bkly 2712.
- Arthur William Ryder, Ph.D., Assistant Professor of Sanskrit—A.B. Harvard College 1897, Ph.D. Leipzig 1901—2337 Telegraph av: Bkly 5025W.
- Homer Lash Sams, D.D.S., Clinical Instructor in Extracting (D)—D.D.S. University of California 1914—391 Sutter st, S F: Grfd 605.
- †Thomas Frederick Sanford, A.B., Assistant Professor of English Literature—A.B. Yale University 1888—1080 Valleejo st, S F: Prospect 1561.
- †Wilbur Augustus Sawyer, A.B., M.D., Clinical Professor of Preventive Medicine and Hygiene (M), Secretary California State Board of Health—A.B. Harvard University 1902, M.D. ibid. 1906—3123 T st, Sacramento.
- †Rudolph Schevill, Ph.D., Professor of Spanish (absent on leave, second half-year 1917-18)—A.B. Yale University 1896, Ph.D. Munich 1898—1308 Tamalpais rd: Bkly 4460J.
- †Hugo Karl Schilling, Ph.D., Professor of the German Language and Literature—M.A. and Ph.D. Leipzig 1885—2816 LeConte av: Bkly 1409.
- Valentine Schmidt, Lecturer on the Business Side of Pharmacy (Ph)—1845 Polk st, S F: Frkn 3200.
- †Lionel Samuel Schmitt, B.S., M.D., Assistant Clinical Professor of Syphilology and Secretary of the Medical School (M)—B.S. and M.D. University of California 1901—University of California Hospital, S F: Snst 1155.
- †Albert Schneider, M.D., Ph.D., Professor of Pharmacognosy, Economic Pharmaceutical Botany, Histology, and Bacteriology (Ph), Instructor in Materia Medica (M)—M.D. Chicago College of Physicians and Surgeons 1887, B.S. University of Illinois 1894, M.S. University of Minnesota 1894, Ph.D. Columbia University 1897—California College of Pharmacy, S F.
- †Franz Schneider, Ph.D., Instructor in German—A.B. University of California 1910, M.A. ibid. 1912, Ph.D. Leipzig 1914—1417A Arch st: Bkly 1717J.
- †Richard Frederick Scholz, Ph.D., Assistant Professor of Ancient History—A.B. University of Wisconsin 1902, M.A. ibid. 1903, Ph.D. ibid. 1910—2605 Etna st: Bkly 4563J.
- Katherine Julia Scott, A.B., M.D., Instructor in Anatomy (M)—A.B. Wellesley College 1910, M.D. Johns Hopkins University 1915—2516c Ridge rd: Bkly 5845W.

- †Niles Pond Searls, B.S., Instructor in Agricultural Extension—B.S. University of California 1912—Yolo County Board of Trade, Woodland.
- †Charles Louis Seeger, Jr., A.B., Professor of Music—A.B. Harvard University 1908—La Loma av and Buena Vista way: Bkly 824.
- †Joachim Henry Senger, Ph.D., Professor of German, Emeritus—A.B. University of California 1882, Ph.D. ibid 1888—1321 Bay View pl: Bkly 404.
- William Albert Setchell, Ph.D., Professor of Botany—A.B. Yale College 1887, M.A. Harvard University 1888, Ph.D. ibid. 1890—Faculty Club: Local 28 or Bkly 2855.
- †Henry H. P. Severin, Ph.D., Instructor in Entomology—A.B. University of Wisconsin 1906, M.A. ibid. 1907, Ph.D. ibid. 1910—2328 Grove st: Bkly 7269.
- †James Graham Sharp, D.D.S., M.D., Professor of the Principles and Practice of Surgery (D)—D.D.S. University of California 1892, M.D. ibid. 1894—Butler bldg, S F: Dgls 3912.
- †Leslie Theodore Sharp, B.S., Assistant Professor of Soil Chemistry and Bacteriology—B.S. University of California 1911—5901 Ross st, O: Pied 2658J.
- †William Fuller Sharp, D.D.S., D.M.D., Professor of Clinical Prosthodontia (D)—D.D.S. University of California 1890, D.M.D. Harvard University 1891—350 Post st, S F: Grfd 820.
- †Charles Fredrick Shaw, B.S.A., Professor of Soil Technology—B.S.A., Cornell University 1906—1415 Euclid av: Bkly 6541.
- †Paul Shorey, Ph.D., LL.D., Litt.D., Sather Professor of Classical Literature (to December 31, 1916)—A.B. Harvard College 1878, Ph.D. University of Munich 1884, LL.D. Iowa College 1905, University of Missouri 1913, Litt.D. University of Wisconsin 1911, Brown University 1914—University of Chicago, Chicago, Illinois.
- Herbert Stanley Shuey, B.S., Special Lecturer in Commerce—B.S. University of California 1909—Olympic Club, S F: Pspt 4400.
- †Haydn Mozart Simmons, Ph.G., M.D., Associate Professor of Materia Medica and Pharmacy and Lecturer on Toxicology (Ph)—Ph.G. University of California 1895, M.D. ibid. 1901—Phelan bldg, S F: Sutter 5069.
- Francis Vance Simonton, D.D.S., Instructor in Operative Dentistry (D)—D.D.S. University of California 1918—1392 Tenth av, S F: Snt 1975.
- Caroline Bates Singleton, M.A., Instructor in French—A.B. Wellesley College 1906, M.A. University of California 1914.
- Paul Ainsley Sinsheimer, B.L., Special Lecturer in Economics (to December 31, 1917)—B.L. University of California 1901—8904 Clay st, S F: Pac 5405.
- †Frederick Slate, B.S., Professor of Physics—B.S. Brooklyn Polytechnic Institute 1871—2281 College av: Bkly 888.
- †Alfred Smith, M.A., Assistant Professor of Soil Technology—A.B. Wittenberg College 1907, M.A. ibid. 1910—University Farm, Davis.
- †Clayton Orville Smith, M.A., Instructor in Plant Pathology—B.S. Middlebury College 1899, M.A. Cornell University 1902—Whittier.
- Elizabeth Hight Smith, M.S., Assistant Professor of Plant Pathology—A.B. Smith College 1900, M.S. Massachusetts Agricultural College 1905—2500 Bancroft way: Bkly 1848.
- †Philip Edward Smith, Ph.D., Instructor in Anatomy—B.S. Pomona College 1908, M.S.A. Cornell University 1910, Ph.D. ibid. 1912—1513 Scenic av: Bkly 8767J.
- †Ralph Eliot Smith, B.S., Professor of Plant Pathology—B.S. Massachusetts Agricultural College 1894—6134 Ocean View dr, O: Pied 5172W.
- †Reginald Knight Smith, M.D., Assistant Clinical Professor of Obstetrics (M)—2600 Jackson st, S F: Flmr 554.
- †Christopher Henry Snyder, B.S., Lecturer in Civil Engineering (from January 1 to June 30, 1917)—B.S. University of Illinois 1890—2713 Forest av: Bkly 904.
- Alfred Solomon, M.A., Instructor in French—A.B. Occidental College 1900, A.B. University of California 1902, M.A. ibid. 1903—2001 Allston way: Bkly 6710.

- †Charles C. Staehling, Ph.B., Instructor in Accounting—Ph.B. University of Chicago 1908—1437 LeRoy av: Bkly 2816J.
- †John Aloysius Stanton, Professor of Drawing and Painting and Dean of the Faculty of the San Francisco Institute of Art (A) (to June 30, 1917)—409 Melville av, Palo Alto.
- Lucy Ward Stebbins, A.B., Associate Professor of Social Economy and Dean of Women—A.B. Radcliffe College 1902—2731 Durant av: Bkly 7386.
- †Jacob Frederick Steffan, D.D.S., Clinical Instructor in Operative Dentistry (D)—D.D.S. University of California 1912—362 Baker st, S F: West 8438.
- Henry Morse Stephens, M.A., Litt.D., Sather Professor of History—A.B. Oxford University 1880, M.A. *ibid.* 1892, Litt.D. Harvard University 1909—Faculty Club: Bkly 6468.
- Ralph Tallant Stevens, B.S., Assistant Professor of Landscape Gardening and Floriculture (absent on leave 1917-18)—B.S. Michigan Agricultural College 1905—324 E. Islay st, Santa Barbara.
- †Guy Robertson Stewart, B.S., Assistant Professor of Agricultural Chemistry—B.S. University of California 1906—Cor. Virginia and La Vareda sts.
- †George Malcolm Stratton, Ph.D., Professor of Psychology—A.B. University of California 1888, M.A. Yale University 1890, M.A. and Ph.D. Leipzig 1896—55 Canyon rd: Bkly 5354.
- Edward Griffith Stricklen, Instructor in Music—472 Thirty-eighth st, O: Pied 1537.
- †Arnold Valentine Stubenrauch, M.S.A., Professor of Pomology (died February 12, 1917)—B.S. University of California 1899, M.S.A. Cornell University 1901.
- †Allen Holman Suggett, D.D.S., Professor of Orthodontics (D)—B.S. Pierce Christian College 1888, D.D.S. University of California 1893—617 Butler bldg, S F: Krny 1428.
- †Francis Bertody Sumner, Ph.D., Biologist in the Scripps Institution for Biological Research—B.S. University of Minnesota 1894, Ph.D. Columbia University 1901—La Jolla.
- †Edward Sigfrid Sundstroem, M.D., Instructor in Biochemistry (M)—M.D. University of Helsingfors 1910—459 Thirty-seventh st, O: Pied 4468.
- James Sutton, Ph.B., Recorder of the Faculties and Secretary of the Academic Senate—Ph.B. University of California 1888—2301 Prospect st: Bkly 2068.
- William Leander Sweet, M.S., Instructor in Pomology—B.S. Kansas State Agricultural College 1914, M.S. University of California 1916—2536 Bancroft way: Bkly 7997.
- Alice Post Tabor, Ph.D., Instructor in German—B.L. Swarthmore College 1902, M.A. University of Chicago 1913, Ph.D. *ibid.* 1916—1610 LeRoy av: Bkly 5845J.
- †Arthur Gould Tasheira, A.B., LL.B. Lecturer in Law—A.B. University of California 1900, LL.B. Harvard University 1908—635 Walsworth av, O: Pied 2784.
- Thomas Frederick Tavernetti, B.S., Assistant Professor of Farm Practice—B.S. University of California 1913—University Farm, Davis.
- †Edward Robeson Taylor, M.D., Professor of Law and Dean of the Faculty of Hastings College of the Law (H)—M.D. University of California 1865—457 City Hall, S F: Mrkt 1307.
- Ethel Elizabeth Taylor, B.S., Instructor in Textiles—B.S. Columbia University 1914—1701 Euclid av: Bkly 2092J.
- †Ralph Hawley Taylor, B.S., Assistant Professor of Pomology—B.S. University of California 1910—1334 Oxford st: Bkly 6500J.
- †Frederick John Teggart, A.B., Associate Professor of History (absent on leave first half-year 1917-18)—A.B. Stanford University 1894—2621 Rose st: Bkly 2470.
- †Wallace Irving Terry, B.S., M.D., Professor of Surgery and Vice-Dean of the Medical School (M)—B.S. University of California 1890, M.D. *ibid.* 1892—240 Stockton st, S F: Krny 25.
- Thomas A. Thacher, A.B., LL.B., Assistant Professor of Law (H)—A.B. Yale University 1908, LL.B. *ibid.* 1910—1020 Merchants Exchange bldg, S F: Sutr 2725.
- †Edward Ellis Thomas, A.B., Assistant Chemist, Dept. Agr.—A.B. Whittier College 1907—Southern California Pathological Laboratory, Whittier.

- †Winfield Scott Thomas, A.B., Assistant Professor of Education and Examiner of Schools—A.B. Johns Hopkins University 1889—2337 Eunice st: Bkly 1998.
- †John Irwin Thompson, B.S., Assistant Professor of Animal Husbandry—B.S. Iowa State College 1910—University Farm, Davis.
- †Herbert Sedgefield Thomson, M.D., Instructor in Surgery (M)—B.S. University of California 1904, M.D. Johns Hopkins University 1909—2539 College av: Bkly 6715.
- †Truman Darby Thorpe, Graduate of the United States Military Academy, Assistant Professor of Military Science and Tactics—2546 Etna st: Bkly 5068J.
- †Reuben Simkin Tour, M.S., Assistant Professor of Gas Engineering—B.S. University of Michigan 1910, M.S. *ibid.* 1914—2312 Prince st: Bkly 6426W.
- †Charles Edward Townsend, LL.B., Lecturer on Patent Law—Ph.B. University of California 1890, LL.B. *ibid.* 1908—156 Dracena av, O: Pied 46.
- †Jacob Traum, D.V.M., Assistant Professor of Veterinary Science—D.V.M. New York State Veterinary College 1905—2325 Hilgard av.
- †Gordon Haines True, B.S., Professor of Animal Husbandry—B.S. University of Wisconsin 1894—University Farm, Davis.
- †Richard Hawley Tucker, C.E., Astronomer (LO)—C.E. Lehigh University 1879—Mt. Hamilton.
- †Warren Porter Tufts, M.S., Assistant Professor of Pomology—B.S. University of California 1912, M.S. Oregon Agricultural College 1914—University Farm, Davis.
- †Leslie Morton Turner, D. & L., Assistant Professor of French—B.L. University of California 1903, D. & L. Université de Paris 1913—2707 Virginia st: Bkly 7896.
- †Lester Charles Uren, B.S., Assistant Professor of Mining—B.S. University of California 1911—2810 Piedmont av: Bkly 7575W.
- †Roland Snow Valle, A.B., Assistant Professor of Orchard Management (R)—A.B. Pomona College 1910—Citrus Experiment Station, Riverside.
- †Edwin Cooper Van Dyke, B.S., M.D., Assistant Professor of Entomology (absent on leave 1917-18)—B.S. University of California 1893, M.D. Cooper Medical College 1895—Cornell University, Ithaca, New York.
- Agatha van Erp, Instructor in Arts and Crafts (A)—1331 Vallejo st, S F: Frkn 434.
- †Alan Crocker Van Fleet, B.L., LL.B., Assistant Professor of Law (H)—B.L. University of California 1910, LL.B. Harvard University 1913—68 Post st, S F: Krny 988.
- Blake Ragsdale Vanleer, B.S., Instructor in Mechanical Engineering—B.S. Purdue University 1915—2218 Durant av: Bkly 1934.
- †Hubert Everett Van Norman, B.S., Professor of Dairy Management, Vice-Director of the Agricultural Experiment Station, and Dean of the University Farm School—B.S. Michigan Agricultural College 1899—University Farm, Davis: Davis 30.
- Frank Joseph Van Sloun, Professor of Drawing and Painting (A) (to June 30, 1917)—1617 California st, S F: Frkn 8288.
- †Burton M. Varney, M.A., Instructor in Geography—A.B. Harvard University 1907, M.A. *ibid* 1910.
- †Charles August von Hoffmann, M.D., Professor of Gynecology, Emeritus (M) (died, May 14, 1917)—M.D. Leipzig 1875.
- †Charles Don von Neumayer, Assistant Professor of Public Speaking—2836 Garber st: Bkly 8562J.
- Edwin Coblentz Voorhies, B.S., Assistant Professor of Animal Husbandry—B.S. University of California 1913—University Farm, Davis.
- †Ernest Linwood Walker, S.D., Associate Professor of Tropical Medicine (HF) (M)—B.S. (Agriculture) Harvard University 1896, B.S. (Biology) *ibid.* 1903, S.D. *ibid.* 1906—1452 Willard st, S F: Mrkt 2613.

- †Oliver Miles Washburn, A.B., Assistant Professor of Classical Archaeology—A.B. Hilldale College 1894—30 Arden rd: Bkly 2221.
- †Hardolph Wasteneys, Ph.D., Associate Professor of Pharmacology (M)—Ph.D. Columbia University 1916—1585 LeRoy av: Bkly 3220.
- †Thomas Talbot Waterman, Ph.D., Assistant Professor of Anthropology—A.B. University of California 1907, Ph.D. Columbia University 1914—2717 Russell st: Bkly 6594.
- †Herbert John Webber, Ph.D., Director of the Citrus Experiment Station, Dean of the Graduate School of Tropical Agriculture, and Professor of Plant Breeding (R)—B.S. University of Nebraska 1889, M.A. *ibid.* 1890, D.Agr. *ibid.* 1913, Ph.D. Washington University 1900—Citrus Experiment Station, Riverside.
- †Hermann Julius Weber, Ph.D., Associate Professor of German—Ph.D. Harvard University 1906—1811 LaLoma av: Bkly 3978.
- †Alanson Weeks, M.D., Instructor in Surgery (M)—M.D. University of Michigan 1899—350 Post st, S F: Grfd 1940.
- †Walter Scott Weeks, M.E., Associate Professor of Mining—A.B. Harvard University 1906, B.S. *ibid.* 1907, M.E. *ibid.* 1909—1581 LeRoy av: Bkly 7829J.
- †Chauncey Wetmore Wells, A.B., Associate Professor of English Composition (absent on leave 1917-18)—A.B. Yale University 1896—Middletown, Connecticut.
- †Henry Abraham Weinland, B.S., Instructor in Agricultural Extension—B.S. Pomona College 1909—Court House, San Diego.
- †Benjamin Ide Wheeler, Ph.D., LL.D., Litt.D., L.H.D., President of the University and President *ex officio* of the Senate—A.B. Brown University 1875, M.A. *ibid.* 1878, Ph.D. Heidelberg 1885, LL.D. Princeton University 1896, Brown University 1900, Harvard University 1900, Yale University 1901, Johns Hopkins University 1902, University of Wisconsin 1903, Illinois College 1904, Dartmouth College 1905, Columbia University 1906, Litt.D. University of Athens (Greece) 1912, L.H.D. Colgate University 1915—President's House, University Grounds: Bkly 1413.
- †George Hoyt Whipple, M.D., Professor of Research Medicine (M) and Director of the Hooper Foundation for Medical Research (HF)—A.B. Yale University 1900, M.D. Johns Hopkins University 1905—2085 Ninth av, S F: Snt 682.
- †James Lyman Whitney, M.D. Assistant Clinical Professor of Medicine (M)—A.B. Yale University 1901, M.D. Harvard University 1905—University of California Hospital, S F: Snt 1151.
- †Edward James Wickson, M.A., Professor of Horticulture, Emeritus—A.B. Hamilton College 1869, M.A., *ibid.* 1872—2723 Bancroft way: Bkly 8891.
- †Harley Rupert Wiley, A.B., LL.B., Instructor in Pharmacal Jurisprudence (Ph)—A.B. Christian College 1877, LL.B. University of California 1897—Berkeley National Bank bldg: Bkly 5886.
- †William Patten Willard, M.D., Instructor in Urology (M)—M.D. University of California 1899—177 Post st, S F: Dgle 5726.
- Arthur Robinson Williams, A.B., Lecturer in Mathematics (to June 30, 1917)—A.B. Yale University 1907—2415 Durant av: Bkly 1712.
- Klotho McGee Willis, Instructor of Costume Design (A) (to June 30, 1917)—58 Liberty st, S F; Msn 693.
- †Ralph Elmer Wilson, Ph.D., Acting Astronomer in charge of D.O. Mills Expedition (LO)—A.B. Carleton College 1906, Ph.D. University of Virginia 1910—Casilla 1219, Santiago, Chile.
- †Clement Tehle Wiskocil, B.S., C.E., Instructor in Civil Engineering—B.S. University of Wisconsin 1912, C.E. *ibid.* 1913—2689 Cedar st: Bkly 2002J.
- †Fritz Wilhelm Woll, Ph.D., Professor of Animal Nutrition—Ph.B. Royal Frederick's University, Christiania, 1888, M.S. University of Wisconsin 1886, Ph.D. *ibid.* 1904—University Farm, Davis.
- †Frederick James Eugene Woodbridge, LL.D., Lecturer in Philosophy on the Mills Foundation (for the second half-year, 1916-17; to June 30, 1917)—A.B. Amherst College 1888, M.A. *ibid.* 1889, LL.D. *ibid.* 1903, LL.D. University of Colorado 1915—Columbia University, New York, New York.



- Mary Woodford**, Instructor in Physical Education.
- Baldwin Munger Woods**, Ph.D., Assistant Professor Theoretical Mechanics and University Examiner—E.E. University of Texas 1908, M.S. University of California 1909, Ph.D. *ibid.* 1912—3038 Hillegass av: Bkly 1677J.
- †**Charles William Woodworth**, M.S., Professor of Entomology—B.S. University of Illinois 1885, M.S. *ibid.* 1886—2237 Carlton st: Bkly 2154.
- †**Austin Tappan Wright**, LL.B., Associate Professor of Law—A.B. Harvard University 1905, LL.B. *ibid.* 1908—11 Panoramic way: Bkly 6966 J.
- †**Harry Noble Wright**, Ph.D., Instructor in Mathematics (resigned June 30, 1917)
- B.S. Earlham College 1904, M.S. University of California 1911, Ph.D. *ibid.* 1913—2409 Dwight way: Bkly 6107W.
- †**William Carl Wright**, D.D.S., Clinical Instructor in Extracting (D) (to June 30, 1917)—D.D.S. University of California 1913—350 Post st, S F: Grfid 1958.
- †**William Hammond Wright**, B.S., Astronomer (LO)—B.S. University of California 1893—Mt. Hamilton.
- Rosalind Wulzen**, Ph.D., Instructor in Physiology (M)—B.S. University of California 1904, M.S. *ibid.* 1910, Ph.D. *ibid.* 1914—2447 Carlton st: Bkly 6581W.
- †**Willson Joseph Wythe**, B.S., Assistant Professor of Mechanical Drawing—B.S. University of California 1895—15 Hill rd, O: Pied 5791.

**GENERAL STATEMENT**

---

**HISTORY**

The establishment of the University of California came as a result of three movements—one originating in private initiative, one in State action and one in Federal action.

In 1853 Rev. Henry Durant, a native of Massachusetts and a graduate of Yale College of 1827, landed in San Francisco. He came with the purpose fully formed in his mind of founding a university. In that same year, under the auspices of the Presbytery of San Francisco and of the Congregational Association of California, Mr. Durant opened the "Contra Costa Academy" in Oakland. The name was shortly afterwards changed to "College School," in order to signify that the undertaking was only preparatory to the projected college. Such an institution was incorporated in 1855 under the name of the "College of California." A suitable site had already been secured in Oakland. Rev. Samuel H. Willey a graduate of Dartmouth College of 1845, who had come to California in 1849, and had constantly agitated the subject of founding a college, was appointed vice-president; no president was selected. In 1859 three professors—Henry Durant, Martin Kellogg, and I. H. Brayton—together with three instructors, were chosen as the faculty of the college, and in 1860 instruction was formally begun with a freshman class of eight students. Classes were graduated from 1864 to 1869, inclusive.

In 1856 a tract of one hundred and sixty acres, five miles north of Oakland, was selected as the permanent home of the college; in 1860 this spot was formally dedicated to the purposes of education; and in 1866, on the suggestion of a member of the board of trustees, Frederick Billings, the name of Berkeley was given to the townsite.

The Constitutional Convention of 1849 inserted in the fundamental law a provision that the legislature should encourage the promotion of the intellectual, scientific, and moral improvement of the people. To accomplish this end the constitution placed at the disposal of the legislature: (1) the five hundred thousand acres of land which had been granted by Congress for the purposes of internal improvement, and devoted by the constitution of California to the cause of common school education; (2) all escheated estates; (3) the sixteenth and thirty-sixth sections of land, granted by Congress, and constituting one-eighteenth portion of all the soil of the State. The constitution directed that these benefactions

should remain a perpetual fund to be "inviolably appropriated to the support of common schools throughout the State." It furthermore provided (4) that "the legislature should take measures for the protection, improvement or other disposition" of lands already given, or thereafter to be given, by the United States or by individuals for the use of the University, that the proceeds of such lands, as of all other sources of revenue, should "remain a permanent fund," the income thereof to be "applied to the support of the University, for the promotion of literature, the arts and sciences;" and that it should be "the duty of the legislature, as soon as may be, to provide effectual means for the improvement and permanent security of the funds of the University."

From 1849 to 1868 the matter of establishing the University of California in one form or another was constantly agitated. In 1853 Congress gave the State forty-six thousand and eighty acres of land for a "seminary of learning." In 1862 the Morrill Act granted to the several states a quantity of public land, the interest on the proceeds of which should be "inviolably appropriated, by each State which may take and claim the benefit of this act, to the endowment, support and maintenance of at least one college where the leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanic arts, in such manner as the legislatures of the several states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life." The apportionment of this grant for California was one hundred and fifty thousand acres. In order to secure the endowment, an act was passed by the legislature in 1866 to establish an Agricultural, Mining and Mechanical Arts College, and to provide a board of directors therefor. The directors provisionally selected a site of one hundred and sixty acres a little to the north of the Berkeley grounds of the College of California.

During the year 1867 a group of men, deeply interested in the intellectual advancement of California, including Rev. Dr. Horatio Stebbins, Professor Durant, Governor F. F. Low, John W. Dwinelle and John B. Felton, sought to secure the establishment of an institution of broader scope than the projected State College of Agriculture, Mining and Mechanical Arts. Their efforts resulted in the generous offer to the State on the part of the College of California of its property in Oakland and its grounds in Berkeley on condition that the State should "forthwith organize and put into operation upon the site at Berkeley a University of California, which shall include a College of Mines, a College of Civil Engineering, a College of Mechanics, a College of Agriculture, an Academic College, all of the same grade and with courses of instruction at

least equal to those of eastern colleges and universities." The directors of the State college agreed to this proposal and recommended to the legislature its acceptance. The legislature accordingly passed an act organizing the University of California, which was signed by Governor H. H. Haight on March 23, 1868.

This Organic Act, or Charter, declared that the University was "created pursuant to the requirements of the Constitution, and in order to devote to the largest purpose of education the benefaction" of the congressional land grant of 1862. It "shall be called the University of California and shall be located on the grounds donated to the State by the College of California." It "shall have for its design to provide instruction and complete education in all the departments of science, literature, art, industrial and professional pursuits, and general education, and also special courses of instruction for the professions of agriculture, the mechanic arts, mining, military science, civil engineering, law, medicine, and commerce."

In reference to the congressional grant, the Charter said: "The Board of Regents shall always bear in mind that the College of Agriculture and the College of Mechanic Arts are an especial object of their care and superintendence, and that they shall be considered and treated as entitled primarily to the use of the funds donated for their establishment and maintenance by the Act of Congress." In reference to the conveyance by the College of California, it said: "The Board of Regents, having in regard the donation already made to the State by the President and board of trustees of the College of California, and their proposition to surrender all their property to the State for the benefit of the State University, and to become discontinued and go out of existence as soon as the State shall organize the University by adding a classical course to the College of Arts, shall, as soon as they deem it practicable, establish a College of Letters. The College of Letters shall be coexistent with the College of Arts, and shall embrace a liberal course of instruction in languages, literature and philosophy, together with such courses or parts of courses in the College of Arts as the authorities of the University shall prescribe." The past graduates of the College of California were to rank in all respects as graduates of the University.

In 1869 the College of California discontinued its work of instruction and gave place to the new University, which opened its doors on September 23. During the construction of buildings at Berkeley the University occupied the college halls in Oakland. On July 16, 1873, the commencement exercises were held at Berkeley and the University took formal possession of its new home.

The first appointees to the faculty included Professors Martin Kellogg, John LeConte, and Joseph LeConte. The first appointee to the presidency was Professor Durant. When in 1872 he resigned, owing to failing health, he was succeeded by President Daniel Coit Gilman.

In 1869 the legislature directed that no admission or tuition fees should be charged, and in 1870 that the University should be opened to women on terms of equality with men. This latter legislative provision was reinforced in 1879 by the express constitution declaration that "no person shall be debarred admission to any of the collegiate departments of the University on account of sex."

President Gilman resigned in 1875 to accept the presidency of the new Johns Hopkins University in Baltimore. He was followed by John LeConte, who served until 1881, when William T. Reid was elected to the position. He served until 1885. Edward S. Holden was then elected, with the understanding that he was to fill the presidency only until the completion of the Lick Observatory, when he was to assume the position of its director. Accordingly he retired in 1888 and was succeeded by Horace Davis, who served for two years. Thereafter Martin Kellogg was acting president until, in 1893, he was formally appointed to the office. Upon his resignation in 1899 he was succeeded by President Benjamin Ide Wheeler.

Until 1887 the University depended for its revenue upon the income from its invested funds and upon biennial appropriations by the legislature. Its invested capital consisted of money derived from the sale of seventy-two sections of land for a seminary of learning and ten sections for public buildings, both granted by Congress in 1853; from the sale of one hundred and fifty thousand acres granted under the Morrill Act of 1862; from the sale of salt and marsh lands granted by the legislature; and from the sale of the College of California property in Oakland.

In 1887 the State legislature rendered the income of the University more secure and permanent by providing for the annual levy of an *ad valorem* tax of one cent on each one hundred dollars of taxable property in California. In 1897 the resources were further enlarged by a second act of the legislature, providing for the levy of an additional one cent on each one hundred dollars, and in 1909 a "three-cent tax" was established by the legislature. In 1911, as an incident of an amendment to the Constitution which reorganized the tax system of the state, the legislature substituted for the "three-cent tax" a bill appropriating for university support the sum of \$760,770 for the year ending June 30, 1912, with provision for a regular increase of seven per cent per annum in this appropriation for three years thereafter, or until June 30, 1915.

In the early years of its history many attempts were made to segregate the departments of the University, especially to set the College of Agriculture off by itself, and many efforts were made to change the character of the governing body. In 1879 this agitation was put to rest by the constitutional convention, which inserted in the fundamental law of the State the declaration that "the University of California shall constitute

a public trust, and its organization and government shall be perpetually continued in the form and character prescribed in the organic act creating the same, passed March 23, 1868, and the several acts amendatory thereof, subject only to such legislative control as may be necessary to insure compliance with the terms of its endowments and the proper investment of its funds."

In 1896 a proposition looking to a general building scheme was made by Mr. Bernard Maybeck, instructor in architectural drawing, and was introduced in the Board of Regents and fostered there by Regent J. B. Reinstein. The board voted to have prepared a programme "for a permanent and comprehensive plan to be open to general competition for a system of buildings to be erected on the grounds of the University of California at Berkeley." Before this resolve had been put into effective operation it came to the notice of Mrs. Phoebe A. Hearst, who was then considering the erection of a building at the University in memory of her husband, the late Senator George Hearst. Accordingly, Mrs. Hearst at once wrote to the board expressing her desire to promote the proposed competition and to defray all the expenses thereof. This offer was gratefully accepted.

Two competitions were held, a preliminary one at Antwerp, and a final one at San Francisco. The preliminary competition opened January 15 and closed July 1, 1898. Of one hundred and five plans presented eleven were selected by the jury for the final contest. The second contest, in San Francisco, resulted in the award of first prize to Monsieur Emile Bénard of Paris; second prize, Messrs. Howells, Stokes and Hornbostel of New York; third prize, Messrs. D. Despradelle and Stephen Codman of Boston; fourth prize, Messrs. Howard and Cauldwell of New York; fifth prize, Messrs. Lord, Hewlett and Hull of New York.

To adapt and carry out the Bénard plan the Board of Regents appointed Mr. John Galen Howard supervising architect of the University. The first structure completed in execution of this plan was the Greek Theatre, the gift of William Randolph Hearst. The Greek Theatre is an open-air auditorium of unique beauty, lying in the hollow of the hills and surrounded with trees. It is used for great university occasions and for musical and dramatic representations. The second building to be completed in accordance with the Hearst Plan was California Hall, a solid granite structure, erected through appropriations made by the State legislature. The third building in this scheme is the Hearst Memorial Mining building, the cornerstone of which was laid on November 19, 1902, and the formal opening celebrated on August 25, 1907. A fourth building, the University Library, provision for which was made in the will of the late Charles Franklin Doe of San Francisco, was first occupied in June, 1911. The Boalt Memorial Hall of Law, the fifth building of

the series, was formally opened on April 28, 1911. This building is the gift of Mrs. Elizabeth Boalt, who gave \$100,000 in memory of her husband, the late John H. Boalt of San Francisco, and of the lawyers of California, who gave an additional \$50,000. Agriculture Hall, the sixth building of the series, was dedicated in November, 1912. The Sather Gate and bridge at the Telegraph avenue entrance to the campus, provided by the generosity of Mrs. Jane K. Sather, as a memorial to her husband, Peder Sather, was completed in 1910. As a memorial to Mrs. Sather herself, the Jane K. Sather Campanile, a bell-tower of white granite and marble, 302 feet in height, has been erected. The cost, \$200,000, together with \$25,000 for the "Sather Bells," was provided for by Mrs. Sather. A President's House and central heating station have likewise been erected.

In November, 1914, the people of California approved by a very large majority an initiative act proposed by the alumni providing for a bond issue of \$1,800,000 to erect a classroom building (Benj. Ide Wheeler Hall) between the Library and the Sather Gate, a chemistry building, and a second unit of the agricultural group, and to complete the University Library—all in accordance with the Hearst Plan.

Benjamin Ide Wheeler Hall, built of granite at a cost of \$700,000, was the first of these buildings to be completed. It contains sixty-two classrooms, seating 4899 persons, including the large central lecture hall, seating 1050 people. The University Library, also of granite, of which the first portion was built in 1910 at a cost including equipment of \$880,000, has now been completed at a total cost of \$1,405,000. The Chemistry Building, known as Gilman Hall, and the second unit of the agricultural group, known as Hilgard Hall, built in concrete, are now being completed at a cost of \$220,000 and \$350,000, respectively. Hilgard Hall will house the new forestry division, agronomy, citriculture, genetics, zymology, and pomology. It will contain a cold storage plant, laboratories for the study of soils, and sixty-three studies and research laboratories for members of the faculty of these divisions. Gilman Hall will be devoted to advanced and graduate students and will be specially equipped for researches in physical, technological, and inorganic chemistry.

The gift by Mrs. Sophronia T. Hooper, in 1913, of property worth between one and two million dollars to endow the George Williams Hooper Foundation for Medical Research, and the giving by other friends of six hundred thousand dollars to build a Teaching Hospital in San Francisco for the Medical Department, were events of importance in the development of the University.

The Scripps Institution for Biological Research, at La Jolla, established by Miss Ellen B. Scripps; the Lick Observatory on Mount Hamilton, given by James Lick; and the California Museum of Vertebrate Zoology, maintained by gift of Miss Annie M. Alexander, are three research departments which owe their origin to private generosity.

The rich collections of the Museum of Anthropology, valued at several million dollars, were assembled for the University through Mrs. Hearst's generosity.

Beginning in 1891, the University has constantly aimed to extend the benefits of its instruction in agriculture farther and farther beyond its own confines. In the year named the custom of holding Farmers' Institutes throughout the State was begun. So important had this work become that, in 1897, a new department was created, a Department of University Extension in Agriculture. Through these institutes, through bulletins, and through professional visits to farm, garden, orchard, and vineyard, the University constantly stands ready to render aid, advice, and instruction to relieve agricultural emergencies and solve agricultural problems in the State. The acquisition of the farm of seven hundred and seventy-nine acres at Davis, Yolo County, has greatly enlarged the scope of the University's work in agriculture. In 1915 a site was acquired for a Graduate School of Tropical Agriculture at Riverside.

The project of accrediting high schools to the University was put into operation in 1884. The main purpose of this movement was, from the first, to aid in unifying the whole system of secondary and higher education throughout the State. Success has in large measure been achieved in this direction, and the work of more thorough co-ordination has penetrated into the elementary schools. From the small number of three accredited high schools in 1884 the list has grown until in 1917 the number is three hundred and one, including two hundred and forty-eight public and fifty-three private schools.

Connected with this accrediting system is the University's work as a training school for prospective teachers. By a law of the State, boards of education and examination have authority to issue teachers' certificates of high school grade to graduates of the University who are recommended by the faculty. Within the past few years the standard of preparation of high school teachers has been raised, so that at present a full year of graduate instruction, partly of classroom work and partly of practice teaching, is exacted before a certificate is issued.

University extension lectures were begun in 1891 and continued through succeeding years with increasing encouragement until 1902, when a Department of University Extension was expressly organized. This department has established centers of extension work in various parts of the State. A corps of instructors has been appointed, whose duties are entirely or mainly devoted to the extension field.

Summer schools in several departments were annually held for a number of years up to 1899, when the work was systematically organized and a summer school of general scope was for the first time held. It has met a great public demand and has been largely attended, not only by teachers of California, but by special students from all parts of the



country. A marked feature of the summer sessions at Berkeley, and an important element of the University's policy in that regard, is the presence as lecturers of leading men from Eastern and European universities.

---

## ORGANIZATION

The University of California is an integral part of the public educational system of the State. As such it completes the work begun in the public schools. Through aid from the State and the United States, and by private gifts, it furnishes facilities for instruction in literature and in science, and in the professions of art, law, medicine, dentistry, and pharmacy. In the colleges of Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry these privileges are offered without charge for tuition to all residents of California who are qualified for admission. Non-residents of California are charged a tuition fee of ten dollars each half-year. In the professional colleges, except that of law, tuition fees are charged. The instruction in all the colleges is open to all qualified persons, without distinction of sex. The Constitution of the State provides for the perpetuation of the University, with all its departments.

---

## ADMINISTRATION

The government of the University of California is entrusted to a corporation styled **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA**, consisting of the Governor, the Lieutenant-Governor, the Speaker of the Assembly, the State Superintendent of Public Instruction, the President of the State Board of Agriculture, the President of the Mechanics' Institute of San Francisco, and the President of the University, as members *ex officio*, and sixteen other regents appointed by the Governor and approved by the Senate. To this corporation the State has committed the administration of the University, including management of the finances, care of property, appointment of teachers, and determination of the internal organization in all particulars not fixed by law.

The instruction and government of the students are entrusted to the **FACULTIES OF THE SEVERAL COLLEGES** and to the **ACADEMIC SENATE**.

The Faculty of each college consists of the President of the University and those professors and instructors, and only those, whose departments are represented in it by required or elective studies.

The Academic Senate consists of the members of the Faculties and the instructors of the University, the President and professors alone having the right to vote in its transactions. It holds regular meetings twice a year, and is created for the purpose of conducting the general

administration of the University, memorializing the Regents, regulating in the first instance the general and special courses of instruction, and receiving and determining all appeals from acts of discipline enforced by the Faculty of any college; and it exercises such other powers as the regents may confer upon it.

In all matters not expressly delegated to the Senate or to the several Faculties, the Regents govern, either directly or through the President or Secretary.

---

#### SITE AND CLIMATE OF BERKELEY

The principal seat of the University is at Berkeley, a city of about 60,000 inhabitants, on the eastern shore of San Francisco Bay directly opposite the Golden Gate. It is thirty-five minutes' ride by train and ferry from San Francisco, and twenty-five minutes' ride by electric car from the business center of Oakland. The site of the University comprises about five hundred and thirty acres, rising at first in gentle and then in bolder slopes from a height of about two hundred feet above the sea level to one of about thirteen hundred feet. It has a superb outlook over the bay and city of San Francisco, the neighboring plains and mountains, the ocean, and the Golden Gate.

Berkeley is a healthful locality; the slope of the town site makes perfect drainage possible.

The climate of Berkeley is one of great uniformity and is exceptionally well suited for university work throughout the year. The summers are cool, making it possible to begin the academic year earlier than in Eastern universities, and thus divide it at the Christmas holidays into two equal half-years. Commencement is held about the middle of May.

Extremes of heat and cold are unknown. The average temperatures are about 59 degrees in summer and 48 degrees in winter. Temperatures as high as 85 degrees are of infrequent occurrence and never last more than a few hours. Very low temperatures do not occur; within the last twenty-five years 24.9 degrees was the lowest temperature recorded at the University.

The marked rainy season begins in November and continues through March; although rains may occur in all months except July and August. In the winter, rain falls on three or four days in succession, after which a week or more of fine weather follows. On the average, even in winter, less than a third of the whole number of days are rainy. The annual rainfall at Berkeley is about twenty-seven inches.

The prevailing summer wind is from the southwest off the Pacific Ocean. It is cool and damp, seldom attaining a velocity of over fifteen

miles an hour. During the winter months easterly winds are common, although a considerable portion of the winds are westerly throughout the year. In winter there is occasionally a strong, cool northwest wind, or a strong north or northeast wind which is dry and warm.

---

## FUNDS

The endowments on which the Academic Colleges and the Lick Observatory have been founded and maintained are the following:

1. The Seminary Fund and Public Building Fund, granted to the State by Congress.
2. The property received from the College of California, including the site at Berkeley.
3. The fund derived from the Congressional Land Grant of July 2, 1862.
4. The Tide Land Fund, appropriated by the State.
5. Various appropriations by the State Legislature for specified purposes.
6. The State University Fund, which is a temporary substitute for a tax of three cents on each \$100 of assessed valuation; the income will be \$1,142,619 for the year ending June 30, 1918.
7. The Endowment Fund of the Lick Astronomical Department.
8. The United States Experiment Station (Hatch) Fund of \$15,000 a year.
9. The United States Experiment Station (Adams) Fund of \$15,000 a year.
10. The Morrill College Aid Fund of \$50,000 a year.
11. The Smith-Lever Fund for co-operative extension work in agriculture, providing \$39,434 for 1917-18.
12. The gifts of individuals.

The total endowment of the University of California at June 30, 1916, was \$5,532,606.55; the income earned by this endowment for the year 1915-16, \$241,242.35.

The California School of Fine Arts and the California College of Pharmacy are supported by fees from students. The Hastings College of the Law has a separate endowment.

**ORGANIZATION OF INSTRUCTION****UNDERGRADUATE CURRICULA**

There are established at Berkeley seven colleges, in each of which there is an undergraduate curriculum of four years, leading directly, under conditions hereinafter stated, to a bachelor's degree, as follows:

The College of Letters and Science: to the degree of Bachelor of Arts.

The Colleges of Applied Science	{	to the degree of Bachelor of Science
		in the College of Commerce,
		in the College of Agriculture—in any one of seventeen divisions: for example, entomology, forestry, soils,
		in the College of Mechanics—(1) in mechanical engineering, or (2) in electrical engineering, or (3) in gas engineering,
		in the College of Mining—(1) in mining, or (2) in metallurgy, or (3) in economic geology, or (4) in petroleum engineering,
		in the College of Civil Engineering—(1) in railroad engineering, or (2) in sanitary engineering, or (3) in irrigation engineering,
		in the College of Chemistry—(1) in chemistry, or (2) in chemical engineering.

**PROFESSIONAL SCHOOLS AND COLLEGES**

Work in the undergraduate colleges at Berkeley may, under certain restrictions, be credited in the schools of Architecture, Education, Jurisprudence, and Medicine, the Hastings College of Law, and the curricula in Public Health. Students pursuing these curricula are also classified in the College of Letters and Science and are subject to all the requirements of this college until they begin the strictly technical work. The first year of professional work in the schools of Education, Jurisprudence and Medicine, or the first two years of professional work in the School of Architecture, or of one of the three curricula in Public Health may be credited toward the bachelor's degree in the College of Letters and Science.

The professional work of the schools of Architecture, Education, and Jurisprudence, of the curricula in Public Health, and the first year and a half of the Medical School is given at Berkeley. The work of the last three years of the Medical School is given in San Francisco. The work of the California College of Pharmacy, of the Hastings College of Law, and of the College of Dentistry is given in San Francisco.

There are permitted, in addition, courses at large and partial courses, not leading directly to any degree, but through each of which, by compliance with the conditions upon which it is conferred, a degree is possibly obtainable.

The University has no preparatory department.

#### GRADUATE COURSES

In all the colleges named above there are provided graduate courses leading to advanced degrees.

#### STATUS OF STUDENTS

In respect to status, students are classified as graduate and undergraduate, and undergraduates as regular students, students at large, and partial course students, the last being further classified as special students and limited students.

*Graduate students* are such graduates of the University of California or of other universities, colleges, or like institutions, who may be authorized to pursue advanced or special studies under the direction of a faculty. Such students may or may not be candidates for degrees.

*Regular students* are those undergraduates who have complied with the requirements for matriculation, and who pursue, or are entitled to pursue, the established curriculum of a college.

*Students at large* are undergraduates devoting to their studies the full time required of regular students, but pursuing purely elective courses. Students at large are subject to all regulations imposed on regular students, except the requirements for a degree, unless otherwise provided.

*Special students*.—See p. 70.

*Limited students* are partial course students to whom, for adequate reasons, less work is permitted, or assigned, than is required of regular students.

*Students at large, special students, and limited students*, by virtue of their status, are not candidates for any degree.

#### ADMISSION

Applicants for admission to regular undergraduate courses at Berkeley must be at least sixteen years of age, must give satisfactory references concerning moral character, and must, by examination or by certificates from accredited schools or by other certificates which shall be satisfactory to the faculties, give evidence of proficiency in such of the subjects

as are designated below as required for the college and status sought. Applicants must also appear before the University medical examiners and pass a satisfactory physical examination, to the end that the health of the university community may be safe-guarded.

A detailed statement of the methods of admission and a list of accredited schools will be found in later pages of this circular.

The normal time for admission to the University is August, but students are also admitted in January. However, the work of many of the curricula is so arranged that a student cannot enter the University in January and complete his college course in four years. A student who intends to enter the University in January should communicate before December 1 with the Recorder of the Faculties, stating the curriculum he intends to pursue and his preparation in detail, in order that he may be advised if entrance in January is practicable.

#### LIST OF PREPARATORY SUBJECTS

*Units of Credit.*—The amount of work represented both by preparatory or high school subjects and by the University courses is specified quantitatively. In the University a unit signifies one hour per week of recitation or lecture, with preparation therefor, during one half-year. A course of study taken in the preparatory school for one year at five periods per week is valued at 3 units. Laboratory hours not requiring preparation are estimated at a lower rate than recitations and lectures.

The list follows:

	Units		Units
*A. English Expression .....		12f. Physiology and Hygiene ....	3
*B. Foreign Language .....		12g. General Science .....	3
1. English, elem. ....	6	13a. History, Med. M., etc. ....	3
2. Plane Geometry .....	3	13b. History, English .....	3
3. Elementary Algebra .....	3	14a. English, adv. ....	3
†4a <sup>1</sup> . Alg. Theory, I .....	1½	14b. English, adv. ....	3
†4a <sup>2</sup> . Alg. Theory, II .....	1½	15a <sup>1</sup> . 1 yr. of 15a <sup>2</sup> .....	[3
†4b. Solid Geometry .....	1½	†15a <sup>2</sup> . French, elem. ....	6
5. History and Government of the U. S. ....	8	†15a <sup>3</sup> . French, intermed. ....	3
6ab <sup>1</sup> . Elementary Latin .....	3	†15a <sup>4</sup> . French, adv. ....	3
6a <sup>2</sup> . Caesar .....	2	15b <sup>1</sup> . 1 yr. of 15b <sup>2</sup> .....	[3
6b <sup>2</sup> . Latin Comp., elem. ....	1	†15b <sup>2</sup> . German, elem. ....	6
†7a. Cicero .....	2	†15b <sup>3</sup> . German, intermed. ....	3
†7b. Virgil .....	2	†15b <sup>4</sup> . German, adv. ....	3
†7c <sup>1</sup> . Latin Comp., adv. ....	1	15c <sup>1</sup> . 1 yr. of 15c <sup>2</sup> .....	[3
†7c <sup>2</sup> . Latin Comp., adv. ....	1	†15c <sup>2</sup> . Spanish, elem. ....	6
†8a. Elementary Greek .....	3	†15c <sup>3</sup> . Spanish, intermed. ....	3
†8b. Attic Prose .....	3	†15c <sup>4</sup> . Spanish, adv. ....	3
†9a. Attic Prose, adv. ....	1½	†16. Free-hand Drawing .....	3
†9b. Homer .....	1½	†17. Geometrical Drawing .....	3
10. History, Anc., etc. ....	3	18a. Mechanical Arts .....	1½-9
11. Physics .....	3	18b. Applied Art .....	1½-8
†12a <sup>1</sup> . Synthetic Proj. Geometry ..	1½	18cd. Domestic Science .....	1½-9
†12a <sup>2</sup> . Plane Trigonometry .....	1½	19. Agriculture, etc. ....	1½-9
†12a <sup>3</sup> . Plane Analytic Geometry ..	1½	20a. Economic Geography .....	1½
12b. Chemistry .....	3	20b. Commercial and Industrial History .....	3
12c. Botany .....	3	20c. Bookkeeping .....	3
12d. Zoology .....	3	20d. Stenog. and Typewriting ....	3 or 6
12e. Physical Geography .....	3	21. Music .....	3-9

\* SUBJECT A, English expression, SUBJECT B, ability to read a foreign language, ancient or modern (French, German, Greek, Italian, Latin, Spanish). While these subjects are not matriculation requirements, they are mentioned here because of the fundamental importance of a proper high school training in meeting these requirements. A is a requirement for junior standing in all the colleges at Berkeley and B a requirement for the junior certificate in the College of Letters and Science and in the College of Commerce; it is required for the bachelor's degree in the College of Agriculture. Credit is given upon examination only, not upon certificate nor upon the formal completion of any course of study. These examinations are regularly held every half-year, Subject B immediately preceding the final examinations in December and May and Subject A during the first week of instruction in August and January.

† The dagger indicates subjects for which equivalent courses are offered in the University. For further description of these courses reference should be made to the annual Announcement of Courses.

Subjects 6ab<sup>1</sup>, 15a<sup>1</sup>, 15b<sup>1</sup>, and 15c<sup>1</sup> represent the minimum credit in Latin, French, German, and Spanish respectively—one year of high school work. Such credit is ordinarily given only upon recommendation, not upon examination.

## FOR ADMISSION TO ANY ACADEMIC COLLEGE

An applicant may enter any of the academic colleges of the University as a regular student, without deficiency, if he is able to meet the following requirements:

ENGLISH, two years .....	6 units
(Subject 1)*.	
MATHEMATICS, four years .....	12
(Subjects 2, 3, 4a <sup>1</sup> , 4a <sup>2</sup> or 12a <sup>2</sup> , 4b, 12a <sup>2</sup> ).	
FOREIGN LANGUAGE, four years .....	12
Latin (subjects 6ab <sup>1</sup> and 6ab <sup>2</sup> );† and German (15b <sup>2</sup> ) or French (15a <sup>2</sup> ) or Spanish (15c <sup>2</sup> ) or Greek (8) or advanced Latin (7).	
(See also Subjects A and B under List of Preparatory Subjects.)	
HISTORY, one year .....	3
(Subjects 5, 10, 13a or 13b.)	
SCIENCE, two years .....	6
Physics (11)† and chemistry (12b).†	
DRAWING, two years .....	6
Freehand (16) and Geometrical (17).	
TOTAL .....	45 units

HOWEVER, NO COLLEGE REQUIRES ALL THE SUBJECTS LISTED ABOVE; but each permits certain modifications in the requirements, which enable students to gain time for elective subjects in the high school if they choose to do so. A student who desires to modify his high school course from the standard given above should carefully study the requirements listed below for all curricula which he might eventually choose at the University.

\* The numbers in parentheses refer to the matriculation subjects listed on a preceding page; for example, 2 is plane geometry.

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all. Elementary physics and elementary chemistry are offered in the summer session of the University, but not in the fall or spring sessions.



MATRICULATION GROUP I

The minimum requirements for complete matriculation in the COLLEGE OF LETTERS AND SCIENCE and the COLLEGE OF COMMERCE are as follows:

ENGLISH, two years .....	6 units
(Subject 1).	
MATHEMATICS, two years .....	6
Plane Geometry (2)* and Elem. Algebra (3).	
FOREIGN LANGUAGES, two years .....	6
Any one of, or any combination from, the following:	
Latin (6),† Greek (8), French (15a), German (15b),	
Spanish (15c).	
(See also Subjects A and B under List of Preparatory Subjects.)	
HISTORY, one year .....	3
U. S. (5), or Ancient (10), or Medieval and Modern (13a),	
or English (13b).	
NATURAL SCIENCE (taken with laboratory work in classes of third-	
and fourth-year pupils), one year .....	3
Physics (11),† or Chemistry (12b),† or Botany (12c), or	
Zoology (12d), or Physiology (12f).	
ADDITIONAL .....	6
Any combination from the following:	
Advanced Mathematics (4a, 4b, 12a).	
Additional foreign language, ancient or modern (6, 7, 8, 9,	
15).	
Additional Laboratory Science taken in classes of third- and	
fourth-year pupils (11, 12b, 12c, 12d, 12f).	
ELECTIVE .....	15
(These may include not more than 9 units chosen from sub-	
jects 18 to 21 and high school subjects not listed by the	
University).	
TOTAL .....	45 units

The candidate for admission must have chosen his preparatory subjects in such a way as to have a total of 12 units of "advanced" subjects. Advanced subjects are as follows: 4a<sup>1</sup>, 4a<sup>2</sup>, 4b, 5, 7, 9, 11, 12 (excluding sciences given in the first and second years of the high school), 13b, 14, 15a<sup>2</sup>, 15a<sup>4</sup>, 15b<sup>2</sup>, 15b<sup>4</sup>, 15c<sup>2</sup>, 15c<sup>4</sup>.

\* The numbers in parentheses refer to the matriculation subjects listed on a preceding page; for example, 2 is plane geometry.

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all. Elementary physics and elementary chemistry are offered in the summer session of the University, but not in the fall or spring sessions.

Any student who has fulfilled the requirements of Group I will be admitted to the College of Letters and Science. However, he will find his choice of studies much restricted unless he has chosen his optional and elective units with due regard to the curriculum he intends to pursue at the University. Requirements and recommendations for preparatory studies have been made by the University; these will be found on pages 65 to 69 of this circular.

### MATRICULATION GROUP II

The requirements for complete matriculation in the colleges of MECHANICS, MINING, CIVIL ENGINEERING, and CHEMISTRY†, the curriculum in ARCHITECTURE (College of Letters and Science) and the curriculum in FOREST UTILIZATION (College of Agriculture) are as follows:

ENGLISH, two years .....	6 units
(Subject 1).	
MATHEMATICS, four years .....	12
Plane Geometry (2),* Elem. Algebra (3), Algebraic Theory (4a <sup>1</sup> ), Algebraic Theory (4a <sup>2</sup> ) or Plane Analytic Geometry (12a <sup>3</sup> ), Solid Geometry (4b), Plane Trigonometry (12a <sup>3</sup> ).	
FOREIGN LANGUAGES, two years .....	6
Any one of, or any combination from, the following:	
Latin (6)†, Greek (8), French (15a), German (15b)†,	
Spanish (15c).	
(See also Subjects A and B under List of Preparatory Subjects.)	
HISTORY, one year .....	3
U. S. (5), or Ancient (10), or Medieval and Modern (13a), or English (13b).	
SCIENCE, two years .....	6
Physics (11)† and Chemistry (12b).†	
DRAWING, two years .....	6
Freehand (16) and Geometrical (17).	
ADDITIONAL .....	6
Any one of, or any combination from, the following:	
Additional foreign language (6, 7, 8, 9, 15).	
Advanced English (14).	
TOTAL .....	45 units

\* The numbers in parentheses refer to the matriculation subjects listed on a preceding page; for example, 2 is plane geometry.

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all. Elementary physics and elementary chemistry are offered in the summer session of the University, but not in the fall or spring sessions.

‡ For matriculation in the College of Chemistry, German, subject 15b<sup>2</sup>, must be presented.

Group II with any of the foreign languages listed will admit also to the College of Agriculture, or to the College of Letters and Science; but see also Group I (for Letters and Science) and III (for Agriculture). Group II with 6 units of Latin† will admit to any curriculum of the University.

**Caution:** The attention of students who are preparing to enter any of the engineering colleges is directed to the following facts:

The regular curriculum of the first year in all the engineering colleges includes mathematics, physics, chemistry, and surveying. Admission to any one of these courses is conditioned upon the satisfaction of the following entrance requirements: For mathematics and surveying—plane and solid geometry (2 and 4b), a year and a half of algebra (3, 4a<sup>1</sup>), plane trigonometry (12a<sup>2</sup>) and either an additional half-year of algebra (4a<sup>2</sup>) or plane analytic geometry (12a<sup>3</sup>); for physics—elementary physics (11); for chemistry—elementary chemistry (12b); for surveying, in addition to the mathematics—geometrical drawing (17). Deficiency in any one of these prerequisites will postpone the corresponding university course until the deficiency is removed and will inevitably prevent the completion of the course in engineering in four years. Moreover, courses in elementary physics and chemistry are not offered by the University, except during the summer session.

---

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all.

## MATRICULATION GROUP III

The minimum requirements for complete matriculation in the COLLEGE OF AGRICULTURE, except the curriculum in FOREST UTILIZATION, are as follows:

ENGLISH, two years .....	6 units
(Subject 1.)	
MATHEMATICS, two years .....	6
Plane Geometry (2)* and Elementary Algebra (3).	
FOREIGN LANGUAGES, two years .....	6
Any one of, or any combination from, the following:	
Latin (6),† Greek (8), French (15a), German (15b), Spanish (15c).	
(See also Subjects A and B under List of Preparatory Subjects.)	
HISTORY, one year .....	3
U. S. (5), or Ancient (10), or Medieval and Modern (13a), or English (13b).	
NATURAL SCIENCE, two years .....	6
Physics (11)† and Chemistry (12b).†	
OPTIONAL (from subjects 4-17 inclusive) .....	9
ELECTIVE .....	9
TOTAL .....	45 units

The candidate for admission must have chosen his preparatory subjects in such a way as to have a total of 12 units of "advanced subjects." Advanced subjects are as follows: 4a<sup>1</sup>, 4a<sup>2</sup>, 4b, 5, 7, 9, 11, 12 (excluding sciences given in the first and second years of the high school), 13b, 14, 15a<sup>2</sup>, 15a<sup>4</sup>, 15b<sup>3</sup>, 15b<sup>4</sup>, 15c<sup>2</sup>, 15c<sup>4</sup>.

\* The numbers in parentheses refer to the matriculation subjects listed on a preceding page; for example, 2 is plane geometry.

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all. Elementary physics and elementary chemistry are offered in the summer session of the University, but not in the fall or spring sessions.

RECOMMENDATIONS FOR THE VARIOUS CURRICULA

The requirements and recommendations for the various curricula are stated below.

The terms "required" and "recommended" are to be interpreted as follows:

**Required:** Subjects without which the student will not be able to enter the regular curriculum. The omission of required subjects at matriculation will usually result in delay in graduation.

**Recommended:** Subjects which will give more effective preparation and thus allow greater freedom of election at the University. The omission of these subjects at matriculation usually will not delay graduation if the student's work at the University is properly planned.

**Agriculture:** leading to the degree of Bachelor of Science in the COLLEGE OF AGRICULTURE.

**Required:** Group III.

**Recommended:** Drawing (16, 17), Trigonometry (12a<sup>2</sup>).

**Anthropology:** leading to the degree of Bachelor of Arts.

**Required:** Group I.

**Architecture:** leading to the degree of A.B. in the COLLEGE OF LETTERS AND SCIENCE, at the end of four years, and to the degree of Graduate in Architecture in the SCHOOL OF ARCHITECTURE at the end of six years.

**Required:** Group II.

**Recommended:** Latin (6ab<sup>1</sup> and 6ab<sup>2</sup>) and French (15a<sup>2</sup>).

**Chemistry:** leading to the degree of Bachelor of Science in the COLLEGE OF CHEMISTRY.

**Required:** Group II, including German 15b<sup>2</sup>.

**Commerce:** leading to the degree of Bachelor of Science in the COLLEGE OF COMMERCE at the end of four years and to an advanced degree in the SCHOOL OF COMMERCE at the end of five years.

**Required:** Group I.

**Recommended:** modern foreign language; additional mathematics.

**Dentistry:** leading to the degree of D.D.S. in the COLLEGE OF DENTISTRY.

*Required:* 45 units, including physics (11) or chemistry (12b). Of the required 45 units at least 36 must be selected from subjects 1 to 17 inclusive; see list of preparatory subjects on page 5.

*Recommended:* Group I.

**Economics:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* additional foreign language.

**Engineering** (Chemical, Civil, Electrical, Gas, Irrigation, Mechanical, Mining [including Economic Geology and Petroleum Engineering], Railroad, Sanitary): leading to the degree of Bachelor of Science in one of the ENGINEERING COLLEGES.

*Required:* Group II.

**English:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* Latin (6, 7) and Greek (8, 9).

**Forest Utilization:** leading to the degree of Bachelor of Science in the COLLEGE OF AGRICULTURE at the end of four years.

*Required:* Group II.

**German:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* German, Latin, French.

German should be begun as early as possible. A knowledge of Latin is desirable. Those who expect to specialize in German literature will find a reading knowledge of French useful.

**History:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* additional foreign language.

**Home Economics:** leading to the degree of Bachelor of Arts in Household Art, or in Household Science.

**Household Art:**

*Required:* Group I, with Chemistry (12b) and Botany (12c).

*Recommended:* Freehand drawing (16), Industrial Arts (18c, 6 units).

**Household Science:**

*Required:* Group I, with Chemistry (12b).

*Recommended:* Physics (11), Industrial Arts (18d, 6 units).

**Languages—Classics, Latin, Greek:** leading to the degree of Bachelor of Arts.

*Required:* Group I, with Latin (6).

*Recommended:* advanced Latin (7), Greek (8, 9), and Ancient History (10).

To delay advanced Latin until the University is reached will make it exceedingly difficult, though not impossible, to do any considerable amount of major work in Latin.

**Other languages:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* Latin (subjects 6, 7), or Greek (8, 9), and French (15a<sup>2</sup>), or German (15b<sup>2</sup>).

**Law:** (A) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE at the end of four years, and to the degree of J.D. in the SCHOOL OF JURISPRUDENCE at the end of six years.

*Required:* Group I.

*Recommended:* physics (11) or chemistry (12b), Latin (6), U. S. history (5) and English history (13b).

A full statement of the requirements for the professional courses in law will be found in the Announcement of the SCHOOL OF JURISPRUDENCE.

(B) leading to the junior certificate in the COLLEGE OF LETTERS AND SCIENCE ordinarily at the end of two years and to the degree LL.B. in Hastings College of the Law (San Francisco) at the end of three years following the junior certificate.

*Required:* Group I.

For further information see the annual announcement of the HASTINGS COLLEGE OF THE LAW.

**Mathematics:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* advanced mathematics (4a, 4b, 12a<sup>2</sup>).

**Medicine:** leading to the degree of M.D. in seven years, or to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE and M.D. in the MEDICAL SCHOOL in a combined course of eight years.

*Required:* Group I, with physics (11) and chemistry (12b).

*Recommended:* advanced mathematics (4a, 4b, 12a<sup>2</sup>), physical chemistry, German (15b<sup>2</sup>) or French (15a<sup>2</sup>), freehand drawing (16).

A full statement of the prerequisites for the Course in Medicine will be found in the Announcement of the MEDICAL SCHOOL.

**Pharmacy:** (A) leading to the degree of Ph.G. (Graduate in Pharmacy) at the end of a course of two years in the CALIFORNIA COLLEGE OF PHARMACY.

*Required:* Two years of approved high school work or its equivalent.

(b) leading to the degree of Ph.C. (Pharmaceutical Chemist) at the end of a course of three years in the CALIFORNIA COLLEGE OF PHARMACY.

*Required:* Graduation from an approved high school course of four years or an equivalent preparation.

(c) leading to the degree of Phar.B. (Bachelor of Pharmacy) at the end of a course of four years in the CALIFORNIA COLLEGE OF PHARMACY.

*Required:* Graduation from an approved high school course of four years or an equivalent preparation.

**Philosophy:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

**Political Science:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

**Public Health:** (A) leading to the degree of A.B. in the COLLEGE OF LETTERS AND SCIENCE at the end of four years and to the degree of Graduate in Public Health (Gr.P.H.) in the GRADUATE DIVISION at the end of six years.

*Required:* Group I, with physics (11) and chemistry (12b).

*Recommended:* advanced mathematics (4a, 4b, 12a<sup>3</sup>), German (15b<sup>3</sup>), or French (15a<sup>3</sup>), freehand drawing (16).

(B) leading to the degree of B.S. in the COLLEGE OF CIVIL ENGINEERING (curriculum in sanitary engineering) at the end of four years and to the degree of Gr.P.H. in the GRADUATE DIVISION at the end of six years.

*Required:* Group II.

(c) leading to the degrees of M.D. and Gr.P.H. in seven years; or, to the degrees of A.B. and Gr.P.H. in the COLLEGE OF LETTERS AND SCIENCE and M.D. in the MEDICAL SCHOOL in a combined course of eight years.

*Required:* Group I, with physics (11) and chemistry (12b).

*Recommended:* advanced mathematics (4a, 4b, 12a<sup>3</sup>), German (15b<sup>3</sup>) or French (15a<sup>3</sup>), freehand drawing (16).

**Romanic Languages:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* French (15a<sup>3</sup>) or Spanish (15c<sup>3</sup>, 15c<sup>3</sup>) or German (15b<sup>3</sup>); Latin is strongly advised.



**Sciences** (Anatomy, Astronomy, Biochemistry, Botany, Chemistry, Geography, Geology and Mineralogy, Hygiene, Palaeontology, Pathology and Bacteriology, Physics, Physiology, Psychology, Zoology): leading to the degree of Bachelor of Arts.

*Required:* Group I, with chemistry (12b) and physics (11).

**NOTE.**—Physics is recommended but not required for students who intend to specialize in zoology.

*Recommended:* advanced mathematics (4a, 4b, 12a<sup>2</sup>), German (15b<sup>2</sup>) or French (15a<sup>2</sup>).

**Slavic Languages:** leading to the degree of Bachelor of Arts.

*Required:* Group I.

*Recommended:* Latin (6a), French (15a<sup>2</sup>) or German (15b<sup>2</sup>).

#### ADMISSION WITH DEFICIENCIES

The question of admitting an applicant to the University with matriculation deficiencies is decided in each case by the Academic Senate or its committees upon the merits of the case. In general, applicants with less than forty-five units of matriculation credit are not admitted.

All courses taken in the University for the purpose of making up matriculation deficiencies are credited solely on the student's matriculation account, and are not credited as part of the sixty-four units required in the lower division for the junior certificate. This holds even though the student enters with forty-five units of matriculation credit. For example: a student may enter the University under Group I with forty-five units of matriculation credit but without credit in foreign languages. Such a student is conditioned in from six to twelve units of matriculation work in foreign languages, and these units, whether taken in the University or otherwise, form no part of the sixty-four units required in the lower division for the junior certificate.

Students who are admitted with deficiencies in matriculation subjects not given in the regular session of the University, may remove these deficiencies by passing the matriculation examinations or by courses in the summer session.

Students who intend to take up at the University courses of study which presuppose a knowledge of matriculation subjects in which they are deficient, are advised to remove these deficiencies before entering the regular session of the University.

**SURPLUS MATRICULATION CREDIT**

Students who bring to the University any matriculation credits in excess of the requirements for matriculation must pass an examination in the University in each subject covered by such credits before these may be counted as cancelling any portion of the one hundred and twenty-four or more units required for graduation. In lieu of such examination for university credit in a given matriculation subject, the Faculty may accept as sufficient evidence of proficiency, a thoroughly satisfactory record (at least second grade) in higher work in the same subject, or in a closely related subject, taken in the University. The preparatory subjects in which university credits may be acquired are as follows: 4, 7, 8, 9, 12a, 12a<sup>2</sup>, 12a<sup>3</sup>, 15, 16, and 17.

A surplus matriculation credit in the foregoing list of subjects, or in other subjects, which may be granted upon recommendation or credentials, without examination, may be used to reduce the number of units in these specific subjects prescribed, in the University, for the junior certificate, but not to reduce the total number of units required (normally 64) for the certificate.

**STUDENTS AT LARGE**

The admission requirements for students at large are the same as for regular students. Students entering in this way may take as much university work as is permitted to regular students without matriculation conditions. They will, like all other students in the University, be permitted to enroll only in courses of instruction for which they have the necessary scholastic preparation. By virtue of their status they are not candidates for a degree.

The study-lists of students at large are supervised by the Dean of the Lower Division.

**SPECIAL STUDENTS**

The administration of special students is in the hands of the Committee on Special Students.

In general, admission to the University as a special student can be arranged only by personal conference with the Committee through its chairman, and with the departments, colleges or schools concerned; such admission usually can not be arranged by correspondence. No person less than twenty-one years of age will be admitted to special status, but it is specifically emphasized that mere attainment of the age of twenty-one years or more does not constitute adequate qualification for such status.

*Prospective applicants should communicate with the Committee on Special Students through the Recorder of the Faculties at least six months prior to the time of intended entrance. This is particularly important since entrance examinations, at least in subjects of fundamental importance for the work proposed, will be prescribed in practically all cases, and time should be allowed for preparation.*

The University has no "special courses"; all courses are organized for regular students—that is, students who have had the equivalent of a good high school education and have been fully matriculated. Special students are admitted to such regular courses as they may be adjudged capable of mastering.

Applicants will not be admitted directly from the secondary schools to the status of special student.

Administrative officers and teachers in high schools and preparatory schools are urged to read carefully the foregoing statement with respect to the admission of special students to the University and to apprise their students accordingly. Such procedure will obviate much unnecessary misunderstanding and disappointment for prospective applicants.

#### LIMITED STUDENTS

The requirements for admission to a limited course are the same as for admission to a regular course.

#### DESCRIPTION OF THE PREPARATORY SUBJECTS

A. Oral and Written Expression in English. Training in this subject enters into the proper treatment of all topics of study taken up in the school course, and extends to speaking and oral reading as well as to writing. Its aim is to secure to the student the ability to use his mother-tongue correctly, clearly, and pertinently on all lines upon which his thought is exercised.\*

B. Ability to read intelligently a piece of ordinary prose in French, German, Greek, Italian, Latin, or Spanish, and to render it into good English. This subject is mentioned in this place because of the fundamental importance of a proper high school training in meeting this requirement.

Subject A is a requirement for junior standing in all colleges at Berkeley and B is a requirement for junior standing in the College of Letters and Science and in the College of Commerce. It is required for the bachelor's degree in the College of Agriculture. Credit is given upon examination only. The examinations are not required before entrance.

\* See *English in the Secondary Schools*, pp. 20-23 (University Press, Berkeley, 1906), for suggestions to teachers and pupils regarding the discipline involved.

English. The high school course in English preparatory to the university consists partly in the study of composition, partly in the study of literature, as outlined in detail under subjects 1, 14a, and 14b. Though several alternative courses are permitted (see under 14a and 14b), the intrant will in no case be given more than twelve units of matriculation credit in English. Of the books listed under 1, 14a and 14b, some are for close study in class, others for outside reading and report. Items marked with an asterisk (\*) are for outside reading only, but items not so marked may be assigned for outside reading instead. Candidates for admission not authentically recommended to the University will be examined solely on books assigned for close study. Their examiners will look for evidence of thoughtful study and for the power to write English in a correct, orderly and fitting manner, rather than for minute information.

1. Elementary English. (6 units.) General minimum requirement.<sup>1</sup>

(a) Composition, oral and written, two periods a week for each of the two years; (b) The specific minimum in each of the six divisions following; or the specific minimum in each of four (including 4, 5, 6 and one other), with outside readings in the omitted divisions and in at least two others.

(1) Narrative Poetry. Minimum, any one of the following poems:

(a) Scott's *Lady of the Lake*, Lay of the Last Minstrel, *Marmion*, Macaulay's *Lays of Ancient Rome*, *Naseby*, *Ivry*, the *Armada*, Morris's *\*Sigurd the Volsung*, *\*Lovers of Gudrun*, Chesterton's *\*Ballad of the White Horse*; (b) or an equivalent in old English ballads and poems of nationality.

(2) Descriptive-Narrative Poetry. Minimum, a complete poem by each of four different authors listed under subdivision a. (a) Lowell's *Vision of Sir Launfal*, Longfellow's *Courtship of Miles Standish*, *Golden Legend*, *Tales of the Wayside Inn*, Whittier's *Snowbound*, Tennyson's *Enoch Arden*, Byron's *Mazeppa*, *Prisoner of Chillon*, *Childe Harold* (cantos III and IV, selections), Coleridge's *Ancient Mariner*, Arnold's *Forsaken Merman*, *Sohrab and Rustum*, Morris's *Earthly Paradise* (one); (b) or an equivalent: one-half from the poems named above and one-half in simple lyrical and descriptive poetry chosen from any recognized anthology or standard textbook.

(3) Narrative and Descriptive Prose. Minimum, any complete book in either subdivision. (a) Scott's *Ivanhoe*, *Talisman*, *Quentin Durward*,

\* See *English in the Secondary Schools*, pp. 20-88 (University Press, Berkeley, 1906), for suggestions to teachers and pupils regarding the discipline involved.

<sup>1</sup> Applicants for entrance by examination will be expected: (a) to show evidence of proficiency in composition and of acquaintance with grammatical and rhetorical principles; (b) to answer questions on masterpieces prescribed in each of the six divisions.

Kenilworth, Woodstock, Bride of Lammermoor, Rob Roy, Cooper's *Deerslayer*, *Pathfinder*, *Last of the Mohicans*, Bulwer's *Harold*, *Last of the Barons*, *Last Days of Pompeii*, Kingsley's *Hereward*, *Hypatia*, *Westward Ho*, Reade's *Cloister and the Hearth*, Dickens's *Tale of Two Cities*, Hughes's *\*Tom Brown at Rugby*, Blackmore's *\*Lorna Doone*, Stevenson's *Kidnapped*, *Treasure Island*, Wallace's *\*Ben Hur*, Kipling's *Kim*, Mark Twain's *\*Joan of Arc*; (b) Irving's *Alhambra*, *Sketch Book*, *Tales of a Traveller*, Scott's *Tales of a Grandfather*, Southey's *Life of Nelson*, Borrow's *\*Lavengro*, Kinglake's *\*Eothen*, Thoreau's *\*Walden*, Austin's *\*Land of Little Rain*, Parkman's *\*Oregon Trail*, Dana's *\*Two Years Before the Mast*, Bayard Taylor's *\*Views Afoot*, Stevenson's *Inland Voyage*, *Travels with a Donkey*, *Across the Plains* (the descriptive parts), *\*The Amateur Emigrant*, Colton's *\*Four Years in California*.

(4) Myth, Heroic Legend, Biblical Story. Minimum, assignments of mythic, heroic, legendary, or biblical story, chosen from any of the following subdivisions but including an outline of classic and Teutonic mythology: (a) Classic Myths in Literature and in Art (entire), or the equivalent in any standard textbook. (b) Classic Poetry in translation: *The Iliad* or *the Odyssey* (entire), or *the Iliad I-VI* and *XII-XXIV* and any four books of the *Odyssey*; *The Aeneid I-VI*, an equivalent in the *Metamorphoses*, Hutchinson's *Muses Pageant* (one volume), *The Antigone*, *Alceste*, *Oedipus*, *Iphigenia in Aulis*, *Iphigenia in Taurus*, Longfellow's *\*Masque of Pandora*, Lowell's *\*Rhoecus*, *\*Prometheus*, *\*Shepherd of King Admetus*, Tennyson's *\*Tithonus*, *\*Oenone*, *\*Ulysses*, *\*Lotus Eaters*, Shelley's *\*Arethusa*, *\*Hymn of Apollo*, *\*Hymn of Pan*, Arnold's *\*Merope*, Phillips's *\*Ulysses*, Swinburne's *\*Atalanta in Calydon*, *\*Itylus*, *\*Garden of Proserpina*, Morris's *\*Atalanta's Race*, *\*Doom of King of Acrisius*, *\*Love of Alceste*. (c) Mythic Story: Kingsley's *Heroes*, Hawthorne's *Wonder Book* and *Tanglewood Tales*. (d) Teutonic Hero-Story: *Beowulf*, *Nibelungen Lied*, *Song of Roland*, Dasent's *Story of Burnt Njal*, Magnusson and Morris's *Story of the Volsungs*, Grettir the Strong, Press's *Laxdale Saga*, Boulton's *Asgard and the Norse Heroes*, Arnold's *\*Balder Dead*, Morris's *\*Fostering of Aslaug*, *\*Sigurd the Volsung*, *\*Lovers of Gudrun*. (e) Romance: Malory's *Morte D'Arthur* (any complete book, or equivalent selections), the *Mabinogion*, Bulfinch's *Legends of Charlemagne*, Newell's *\*King Arthur and the Table Round*, Lanier's *\*Boy's King Arthur*. (f) Biblical Story: Old Testament narratives from the *Genesis*, *Judges*, *Kings*, etc., *Ruth* and *Esther* (entire), Bunyan's *\*Pilgrim's Progress*.

(5) Shakespeare. Minimum, any two of the following plays but preferably one in each group, or one play for study and two for reading: (a) *The Merchant of Venice*, *As You Like It*, *Twelfth Night*, *Midsummer Night's Dream*, *A Comedy of Errors*, *The Taming of the Shrew*, *The*

Tempest. (b) Julius Caesar, Antony and Cleopatra, Coriolanus, Henry IV (part I), Henry V, Richard III, King John.

(6) American Ideals. Minimum, two addresses, or one address and one essay, or one address for study with two other items (essay or address) for reading: (a) Addresses: Lincoln's Gettysburg speech and first or second Inaugural, Washington's Inaugural of 1789, Jefferson's of 1801, Everett on Franklin, on Washington, the Pilgrim Fathers, Webster's Plymouth Oration, First or Second Bunker Hill Oration, Eulogy on Adams and Jefferson, Choate on American Nationality, on Daniel Webster, Curtis on the Puritan Spirit, Leadership of Educated Men, Public Duty of Educated Men, Sumner on The Scholar, Phillips's Scholar in a Republic, Schurz's International Arbitration, True Americanism, Grady's New South, Race Problem in the South, Hay's "America's Love of Peace, Root's "Pan-American Spirit, Wilson's First Inaugural, his War Message, Cochran's John Marshall, Booker Washington's "Atlanta Address. (b) Essays: Bryce's Strength of American Democracy, Pleasantness of American Life, Uniformity of American Life, National Characteristics as Moulding Public Opinion, The Nation and the States (from the American Commonwealth), Hindrances to Good Citizenship (any chapter), Matthew's "Americanism, a Definition, Abbott's "America in the Making (any chapter), Van Dyke's "Spirit of America (any chapter), Taft's "Popular Government (any chapter). Schurz's Lincoln.

z. Plane Geometry. (3 units.) The usual theorems and constructions of elementary plane geometry, including the general properties of regular polygons, their construction, perimeters and areas, and the different methods for determining the ratio of the circumference to the diameter. The solution of original exercises, including problems in loci and applications to mensuration.

3. Elementary Algebra. (3 units.) Algebraic practice, namely, the fundamental laws of algebra, including the fundamental laws of exponents for positive and negative integers, synthetic division, the various methods of factoring, with application to the reduction of fractions and to the solution of equations (especially quadratic equations), simultaneous equations of first degree with problems involving their solution, variables and functions, especially linear functions. An important aim in this requirement should be to acquaint the pupil with the notion of functionality, mainly through the early and continuous use of graphical methods.

4a<sup>1</sup>. Algebraic Theory, Part I. (1½ units.) Determinants of the second and third order with their applications to the solution of linear systems of equations; synthetic division; the remainder and factor theorems; quadratic equations, both single and simultaneous (graphical as well as algebraical treatment); graphical solution of equations of higher degree

than the second; fractional and negative exponents, surds, ratio and proportion; variation.

**4c<sup>2</sup>. Algebraic Theory, Part II.** (1½ units.) The progressions and other simple series; elementary theory of logarithms, with practice in computation; complex quantities (graphical as well as algebraical treatment); theory of quadratic equations; mathematical induction; the binomial theorem, at least for positive integral exponents.

**4b. Intermediate Mathematics. Solid Geometry.** (1½ units.) Supplementary studies in plane geometry and the fundamental propositions of solid and spherical geometry, with problems in demonstration and in the mensuration of surfaces and solids. The ability to apply geometry to practical problems is important in this requirement.

**5. History and Government of the United States.†** Either of the following two courses may be offered in satisfaction of the 3 units of history required for matriculation:

**5ab. History and Government of the United States.** (3 units.)

**5a. History of the United States.** (3 units.)

The following three courses may be offered as elective credit for matriculation but not in satisfaction of the required three units in history:

**5b. Government of the United States. A full years' work.** (3 units.)

**5b<sup>1</sup>. Government of the United States. A half year's work.** (1½ units.)

**5a<sup>1</sup>. History of the United States. A half year's work.** (1½ units.)

**Latin.** In the matriculation examinations special stress will be laid on the student's ability to translate passages of Latin previously unseen. Every examination on prescribed reading will contain also one or more passages for translation at sight; and the candidate must deal satisfactorily with both parts of the paper, or he will not be given credit for either. The examinations in Latin composition will presuppose a knowledge of words, constructions, and range of ideas such as are common in the reading of the year, or years, covered by the particular examination.

**6ab<sup>1</sup>. Elementary Latin.** (3 units.) So much of subjects 6a<sup>2</sup> and 6b<sup>2</sup> as may be done in accredited schools in one year at the rate of five periods per week. No regular examination will be given in this subject, and no Latin work in the University is provided for students who present it for matriculation.

**6a<sup>2</sup>. Elementary Latin; Caesar, Nepos.** (2 units.) This subject represents four periods a week during the second school year. It includes the mastery of inflections and of the simpler principles of syntax, the

† A list of text-books authorized by the State Board of Education for use in the high schools of California is issued by the State Printer at Sacramento.

acquisition of a working vocabulary of from one to two thousand words, and the power to understand, from the printed page and at hearing, simple prose narrative, and to translate the same into idiomatic English. The basis of this work must equal in amount Caesar's Gallic War, books I-IV; but in making up this total, selections may be included from other books of the Gallic War, or from the Civil War, or from the Lives of Cornelius Nepos, or from the works of other prose authors. The passages set for examination may, or may not, be taken from Caesar.

6b<sup>2</sup>. Latin Composition, Elementary. (1 unit.) This subject represents one period a week, or its equivalent, during the second year. It includes the writing in Latin of detached and connected English sentences, and it should constitute the chief means of teaching Latin forms and syntax.

NOTE.—The total credit value of a recommendation in 6ab<sup>1</sup>, 6a<sup>2</sup>, and 6b<sup>2</sup> is six units; of 6ab<sup>1</sup> and 6a<sup>2</sup>, five units; of 6ab<sup>1</sup> and 6b<sup>2</sup>, four units.

7a, 7b. Advanced Latin: Cicero, Sallust (2 units); Virgil, Ovid (2 units). This subject represents four periods a week for two years. It includes the continuation of the requirements outlined under 6a<sup>2</sup>, with the addition of the study of versification. The emphasis in these two years should be laid upon the development of the students' power to understand Latin prose and poetry in the original, and upon the thought of the authors read, rather than upon the syntax, except in so far as the syntax is suggested by the interpretation of the thought. Considerable attention should be given to the matter of historical and literary allusions.

The basis of the work in subject 7a must equal in amount six orations of Cicero; but in this total may be included selections from Cicero's letters, or from Sallust, or from other prose work of equal difficulty. The basis of the work in subject 7b must equal in amount Virgil's Aeneid, books I-VI; but selections may be included from the Bucolics and Georgics, or from Ovid (Metamorphoses, Fasti, Tristia), or from other poetry of equal difficulty. The examination in subject 7a will include questions on the Manilian Law and the Archias; and in subject 7b, on Virgil's Aeneid, books I and II, and, at the option of the student, on either books IV or VI.

7c<sup>1</sup>. Latin Composition, Advanced. (1 unit.) This subject represents one period a week, or its equivalent, for one year, presumably the third of the course. It includes the writing in Latin of connected English sentences. The emphasis should be laid on the order of words, the simpler features of sentence structure, and the means of connecting sentences into paragraphs.

7c<sup>2</sup>. Latin Composition, Advanced. (1 unit.) This subject represents one period a week, or its equivalent, for one year, presumably the fourth



of the course. It may well serve as a means of reviewing Latin forms and syntax, but the prose of Caesar and Cicero should be the standard for reference.

**8a. Elementary Greek. (3 units.)** The requirement represents a year's work in the elements of the language, reading of simple prose, memorizing of quotations, writing from dictation, and abundant easy composition, both oral and written, leading to a sound knowledge of the ordinary inflectional forms and the common rules of syntax, and to a fair vocabulary. There is no regular matriculation examination in 8a apart from 8b.

**8b. Attic Prose. (3 units.)** The year's work should include reading of Attic prose equal in amount to books I-IV of Xenophon's *Anabasis*, memorizing of quotations, writing from dictation, and abundant easy composition, both oral and written, and should lead to a better mastery of inflection, syntax, and vocabulary. Some attention should be given to the historical setting of the *Anabasis* (or whatever other book or selections may be read) and to the antiquities connected therewith.

**9a. Attic Prose. (1½ units.)** A continuation of the kind of work done in 8b; the reading, however, should be more rapid, and there should be more translation at sight. Writing should be continued, still abundant and still easy.

**9b. Homer. (1½ units.)** The requirement represents the reading of three books of Homer (the matriculation examination will include questions on books I-III of the *Iliad*) and a knowledge of the ordinary characteristics of Homeric language and the principles of Homeric prosody. Ability to read Homer aloud with fluency and expression is expected.

The adjustment of Greek work in the University to the different classes of students is as follows:

1. Students who offer no matriculation Greek will be admitted to Greek A-B, or AB, in their freshman year.
2. Students who offer 8a will be admitted to Greek B.
3. Students who offer 8ab will be admitted to Greek C-D, or CD.
4. Students who offer 8ab and 9b will be admitted to Greek C.
5. Students who offer 8ab and 9a will be admitted to Greek D.
6. Students who offer 8ab and 9ab will be admitted to Greek 1 or 2.

Students who begin Greek in the University have time for two years of strictly college Greek before graduation. But the period of life covered by the high school course is the time when the memory-work involved in learning the elements of a highly inflected language, like Greek, is most easily and successfully accomplished, and students who

intend to study Greek are advised to begin the subject in the high school whenever this is possible.

10. Ancient History.‡ (3 units.) Alternatives 10<sup>1</sup> or 10<sup>2</sup>.

10<sup>1</sup>. Ancient History. (3 units.) The elements of ancient history from the earliest times to 800 A.D. Stress should be laid upon the European and Mediterranean backgrounds of early Greek history and upon the period from the sixth century to about 200 B.C.; upon Roman history, from the conquest of Italy to the beginning of the third century A.D.

10<sup>2</sup>. Ancient and Medieval History. (3 units.) A survey covering the period from the earliest times to about the year 1500.

11. Physics. (3 units.) The requirement represents at least a daily exercise during one school year, which falls within the last two years of preparation for college. It is expected that the ground covered will include fair representation of primary empirical laws from each of the main subdivisions of physics.

The results called for demand vigorous and thorough instruction in the classroom, based upon laboratory exercises by the pupils and other experimental illustrations; and it is urged that a strong effort be made to connect the principles of physics with familiar facts and processes.

In case the pupil appears for examination in this subject, he should submit his experimental notebook to the examiner in charge. Such notebooks must contain an explicit certificate from the teacher, in a form that specifies the date and place of the work, and the number of experiments vouched for.

12a<sup>1</sup>. Synthetic Projective Geometry. (1½ units.) The operations of projection and intersection, the principle of duality, ideal elements, triangles in perspective, the complete quadrilateral, harmonic quadruples, involution. Construction of projective figures in the plane and in space, construction and projective properties of the conic sections, Pascal's and Brianchon's theorems, poles and polars. The relation between metric and projective geometry, with numerous problems and constructions.

12a<sup>2</sup>. Plane Trigonometry. (1½ units.) The development of the general formulae of plane trigonometry, with applications to the solution of plane triangles and the measurement of heights and distances. Practice in computation with logarithmic tables.

12a<sup>3</sup>. Plane Analytic Geometry. (1½ units.) The fundamental methods of analytic geometry. The straight line and circle, and the simpler prop-

---

‡ A list of text-books authorized by the State Board of Education for use in the high schools of California is issued by the State Printer at Sacramento.

erties of the conic sections. Problems in loci. Graphical solution of equations.

[In special cases advanced algebra may be accepted in place of this subject.]

**12b. Chemistry. (3 units.)** This requirement represents five exercises a week for one year, at least one-third of which must consist of laboratory work. Special emphasis should be laid on fundamental principles and on the solution of problems in chemical arithmetic. A notebook (see under physics) is required. Courses in domestic chemistry will not be accepted in satisfaction of this requirement, although credit for such courses may be given when used as a free elective, subject to the 9-unit vocational limit.

**12c. Botany. (3 units.)** A knowledge of the morphology and simpler physiology of the higher plants is required. This should be based upon a full year of practical work in the laboratory, and to some extent, also, in the field. Careful attention should be paid to the recording of observations, by notes and drawings, together with the drawing of correct inferences from the observations. It is desirable that the pupils become familiar with the easier orders of flowering plants represented in the local flora. Setchell's *Laboratory Practice for Beginners*, Jepson's *Flora of Western Middle California*, Bergen's *Elements of Botany*, and Osterhout's *Experiments with Plants*, indicate both the scope and the method of the work. A notebook (see under physics) is required.

**12d. Zoology. (3 units.)** Preparation in this subject should aim at proficiency in solving problems rather than the mere acquisition of information. For this reason, the necessity of practical work in the field and laboratory is strongly emphasized. Local conditions should determine in the main the character of the course, materials, relative proportions of field and laboratory work, etc. The practice of utilizing plants as well as animals, to bring out fundamental facts common to both groups as a means of interpreting either, is highly commended. Consideration will be given especially to capacity to discover problems and apply facts to their solution, to make accurate observations, thoughtful deductions and clear expositions.

The requirement represents a minimum of five hours a week for one year. Four hours at least should be devoted regularly to practical work, preferably in two periods of two hours each. Drawing should be used as a means of testing the correctness of observations, not primarily as a means of record. Notebooks (see under physics)—*not composition books*—and drawings are required. The following text-books should be useful: Peabody and Hunt's *Biology*, Bigelow's *Applied Biology*, Jordan, Kellogg and Heath's *Animals*, Needham's *General Biology*, Hunter's *Essentials*

of Biology, Sharpe's Laboratory Manual in Biology, Linville and Kelly's Text-book in General Zoology, Peabody's Laboratory Exercises.

12e. Physical Geography. (3 units.) A course designed to cultivate habits of observation, comparison, and reflection; requiring a practical acquaintance with common natural phenomena and the processes which underlie them. It should embrace experimental and field investigation of as many topics as may be practicable in each of the commonly accepted divisions of the subject, namely: mathematical geography, the atmosphere, the ocean, and the land. Schools too far from the ocean to make field excursions to the shore may reduce somewhat the time for this division, although much valuable work is possible with pictures and the monthly pilot charts. In the other divisions of the subject direct observation of phenomena is equally possible for all schools, the details of climate and land forms varying with the locality. If the pupils have had no general science course many more experiments should be introduced, a large number of them to be performed by the pupil. Each experiment should be chosen to illustrate phenomena in the immediate geographic environment of the school. The notebook (see under physics) should give the record of field work especially and also show clearly the nature and purpose of the laboratory experiments.

12f. Physiology and Hygiene. (3 units.) The requirement represents five exercises a week throughout one year.

The work should embrace (1) a well organized laboratory course and (2) classroom exercises based upon both laboratory and text-book study.

The emphasis should be placed upon physiology proper, *viz.*, the mechanism of the phenomena of life and the functions of the various organs of the human body; but in connection with this the pupil should learn accurately with the aid of a manikin such anatomical facts as are fundamental for the understanding of the functions of the organs. He should also receive definite and practical instruction in the more important principles of personal and public hygiene, e.g., the sources of infection for typhoid or diphtheria or other infectious diseases, and how to avoid these infections.

In the laboratory, carefully written notes and drawings should be made, and these should be frequently criticized by the teacher. The laboratory work should occupy at least one-half the time of the entire course. A laboratory note-book (see under physics) is required.

12g. General Science. (3 units.) This subject should be taken during the first year of the high school course. The aim of the work should be to develop answers to the questions which arise in the pupil's daily experience with natural phenomena, to familiarize the pupil with the

fundamental principles underlying these phenomena; and, above all, to awaken an intelligent and fruitful interest in the relations of natural science to our daily life. The subject should be treated from the point of view of natural science in general, rather than from the points of view of the several subdivisions thereof.

Considerable attention should be paid to local conditions; for example, in country high schools botany, soil physics, and other matters connected with agriculture should be emphasized; in manufacturing cities, chemical processes, mechanics, etc.; while for girls subjects bearing on domestic science would be useful.

Constant laboratory and field work is essential. If possible there should be some individual laboratory work by the pupil, and at least one double period per week should be allowed for this. As a rule, the pupil should perform his own experiments, and, wherever possible, these experiments should be so simplified that they may be repeated at home.

The course should deal with such elementary scientific principles as are involved in gardening, including a study of soil and elementary physiography; household operations; sanitation; simple machinery, including the steam engine; the weather; the change of seasons, and similar natural phenomena. No regular examination will be given in this subject.

13a. Medieval and Modern History.† (3 units.) Alternatives 13a<sup>1</sup> or 13a<sup>2</sup>.

13a<sup>1</sup>. Medieval and Modern History. (3 units.) The period to be covered is from 800 A. D. to the latter part of the nineteenth century. Designed to follow subject 10<sup>1</sup>.

13a<sup>2</sup>. Modern European History. (3 units.) A year's work in the history of Europe since about 1500. This course is designed to follow subject 10<sup>2</sup>.

13b. English History.† (3 units.) From the earliest times to the latter part of the nineteenth century. Attention should be given to institutions and civilization as well as to political narrative.

14. Advanced English. General minimum requirement.† (1) Composition, oral and written, at least one period a week throughout each year. (2) Study of masterpieces—as to style, organization of thought, and content.

14a. (3 units.) Alternatives: 14a<sup>1</sup> entire or 14a<sup>2</sup> entire.

---

† Applicants for admission by examination will be expected: (1) to exhibit a knowledge of practical composition and of grammatical and rhetorical usage; (2) to show an understanding of organization and of style; (3) or if the material in 14a<sup>1</sup> or 14b<sup>1</sup> or 14b<sup>2</sup> or 14b<sup>3</sup> be offered, to show an acquaintance with the works covered (solely those assigned "for study"), as regards structure, style and content.

‡ A list of text-books authorized by the State Board of Education for use in the high schools of California is issued by the State Printer at Sacramento.

14a<sup>1</sup>. General Course. (1) Poetry of Chivalry. Minimum, any of the first three alternatives, or one of the Idylls for study with two (or the equivalent) for reading: (a) two of Tennyson's Idylls of the King; (b) any one of Tennyson's Idylls with the corresponding portion of Malory or of the Mabinogion; (c) Tennyson's Princess; (d) Swinburne's \*Tale of Balin; (e) Arnold's \*Tristram and Iseult; (f) Morris's \*Defence of Guenevere, \*King Arthur's Tomb, \*Sir Galahad, Tennyson's \*Lady of Shalott, \*Lancelot and Guenevere, \*Sir Galahad, \*St. Agnes, Keat's \*Eve of St. Agnes, \*St. Mark's Eve; (g) Weston's \*Sir Gawain and the Green Knight (in Romance, Vision and Satire); (h) Mrs. Browning's \*Rhyme of the Duchess May, \*Lay of the Brown Rosary. (2) Historical Prose. Minimum, any of the historical essays (under a), with one more or an equivalent from historical episodes (under b) for reading. (a) Historical Essays—Macaulay's History, Chapter 1 (England before the Restoration), or Chapter III (The State of England in 1685), or his Chatham (second essay), or Clive, or Warren Hastings, or Frederick the Great, or Hallam, or Essay on History, Carlyle on History (two essays) and on Biography, or his Mirabeau, Froude on the Science of History, Green's Character of Queen Elizabeth, and Character of Charles Second (History of the English People), Kinglake's Invasion of the Crimea, Chapters I-III. (b) \*Historical Episodes. Minimum, about one hundred pages chosen at will. Passages from histories and biographies of acknowledged literary merit, such as: Herodotus, Thucydides, Livy, Plutarch in standard translations, Berners' or Johnes Froissart (Lanier's, Marzials' or Madelen's selections), Villehardouin and De Joinville's Crusades, More's Richard III, Cavendish's Wolsey, Casanova's or Cellini's Memoirs, Clarendon (Boyle's or MacKenzie's selections), Franklin's Autobiography, Gibbon, Macaulay, De Quincey, Carlyle, Kinglake, Napier, Froude, Prescott, Parkman, Motley, Fiske, Southey's Nelson, Lockhart's Scott, Thackeray's Four Georges, Stevenson's Footnote to History, Creasey's Decisive Battles of the World, Trevelyan's Macaulay. (3) The Novel. Minimum, any of the following: (a) Goldsmith's Vicar of Wakefield and Addison's De Coverley Papers; (b) Austen's Pride and Prejudice, or Emma, or Gaskell's Cranford; (c) Edgeworth's Castle Rackrent and the Absentee; (d) Scott's Heart of Mid-Lothian; (e) Bronte's Shirley, or Gaskell's North and South, or Mary Barton; (f) Hawthorne's House of Seven Gables, or Blithedale Romance, or Scarlet Letter; (g) Dickens's David Copperfield, or Bleak House, or Oliver Twist, or Nicholas Nickleby; (h) Thackeray's Henry Esmond, or Newcomes, or Pendennis; (i) Trollope's Barchester Towers, or Orley Farm; (j) Eliot's Silas Marner, or Adam Bede, or Mill on the Floss, or Romola; (k) Hardy's Far from the Madding Crowd; (l) Howells' Rise of Silas Lapham, or A Modern Instance; (m) Stevenson's Master of Ballantrae. (4) Scientific and

**Ethical Prose.** Minimum, one essay in each of two subdivisions, or one for study, with two from each of two subdivisions for reading. (a) Huxley's *Man's Place in Nature*, or *Lay Sermons*, or *American Addresses*, Tyndall's *Fragments of Science*, or *New Fragments*, Darwin's *Origin of Species*, \**Voyage of the Beagle*. (b) James's *On Life's Ideals*, *The Energies of Men*, *Habit*, *The Moral Equivalent of War*, Stevenson's *Virginibus Puerisque*, Dickinson's *Letters from a Chinese Official*, Munger's \**On the Threshold*, Patten's \**New Basis of Civilization*, Hadley's \**Standards of Public Morality*, \**Baccalaureate Addresses*, Cabot's \**What Men Live By*, Perry's \**American Ideals*. (c) Meiklejohn's *The Aim of a Liberal College*, James's *Social Value of the College* Bred, I. N. Hollis, \**Intercollegiate Athletics*, Jordan's \**The Voice of the Scholar*, Woodrow Wilson's *The Spirit of Learning*, *The Training of the Intellect*, *What is a College For*, *When a Man Comes to Himself*, Briggs's \**School, College and Character*, \**Routine and Ideals*, Huxley's *Science and Culture*, *Science and Art in Education*, *A Liberal Education*, *On University Education*, Tyndall's *Address to Students*, Arnold's *Literature and Science*, Carlyle's *Address to the Students at Edinburgh*, Gayley's \**Idols of Education*, Corson's \**The Voice and Spiritual Education*, Palmer's \**Self Cultivation in English*. (5) Poetry, Lyrical and Descriptive, Epic and Dramatic. Minimum, any of the following five: (a) Milton's *L'Allegro*, *Il Penseroso* and *Comus*; (b) or *Paradise Lost*, Book I, or II, or V, or VI; (c) or an equivalent amount of lyrical poetry of the sixteenth and seventeenth century, including *L'Allegro* and *Il Penseroso*; (d) or *Comus* and *Mid-summer Night's Dream*; (e) or an equivalent in American literature (see 14b<sup>4</sup>) including such poems as Bryant's *Thanatopsis*, *To a Water Fowl*, *Old Man's Funeral*, *Forest Hymn*, Emerson's *Problem*, *Two Rivers*, *The Days*, *Terminus*, *The Rhodora*, Longfellow's *Keramos*, *Morituri Salutamur*, Holmes's *Last Leaf*, *Chambered Nautilus*, Poe's *Raven*, Annabel Lee, Whitman's *O Captain, My Captain*! Lanier's *Song of the Chatahochee*, Lowell's *Commemoration Ode*, *Shorter Lyrics*.

14a<sup>2</sup>. A full-year course in composition and study of the kinds of writing (narrative, descriptive, expository) with optional readings or study of specimen selections.

14b. (3 units.) Alternatives: 14b<sup>1</sup> or 14b<sup>2</sup> or 14b<sup>3</sup> entire; or 14b<sup>4</sup> (any two).

14b<sup>1</sup>. General course (3 units). (1) Arguments and Orations. Minimum, two orations for study, or one for study and two for reading. Any three oratorical masterpieces of argument including one of Burke, Webster, or Lincoln. (2) The Essay. Minimum, one essay in either subdivision for study, one for reading, either from this list or from that under 14b<sup>4</sup>: (a) Ethical Essays—Carlyle's *Hero as King*, *Hero as Prophet*,

Hero as Priest, Hero as Divinity, Emerson's Compensation, Self-Reliance, American Scholar, Fortunes of the Republic, Representative Men (one chapter), Lowell's Democracy, Lincoln, Independent in Politics, Ruskin's Sesame and Lilies (Part 1), Crown of Wild Olive (one chapter), Unto This Last (one chapter). (b) Literary Essays—Carlyle on Burns, Scott, The Hero as Poet, Hero as Man of Letters, on Boswell's Life of Johnson, Macaulay on Croker's Boswell, Addison, Milton, Johnson, Harrison's Choice of Books (one chapter); Lowell's Literary Essays (one), Arnold's Essays in Criticism, second series (one), Discourses in America (one), Woodberry's Great Writers (one). (3) Brief Survey of English Literature. Minimum, representative selections from the modern periods listed under 14b<sup>2</sup>. (a) An outline of English literature; (b) a review of masterpieces studied under 1 and 14a, supplemented by selections from 14b<sup>2</sup>.

14b<sup>2</sup>. (3 units.) Argumentation, Public Speaking, and Debate. Minimum, a full-year course in oratorical and argumentative composition, delivery, and debate. (a) Drill in the elements of delivery, writing and delivery of short speeches, practice in extemporaneous oral composition. (b) Study of the principles of argumentation and debate, analysis of great speeches.

14b<sup>2</sup>. (3 units.) History of English Literature.† Minimum, a full-year course, including one or more masterpieces in each of the ten groups following: (a) Anglo-Saxon Period: Beowulf (Hall's or Gummere's translation), Cook and Tinker's Selections from Old English Prose; (b) Chaucerian Era: The Prologue, one of the Canterbury Tales, Piers the Plowman (selections), Gawain and the Green Knight (modern version); (c) Post Chaucerian Era: Malory, Books I and II, VII, and VIII, or the equivalent; (d) Revival of Learning: More's Utopia, Sidney's Defense of Poesie; (e) Elizabethan Age: Fairie Queen, Book I, Sidney's and Shakespeare's Sonnets, Elizabethan Lyrics, drama including lyrical plays, Shakespeare's greater tragedies, Beaumont and Fletcher, Jonson; (f) Puritan Era: Milton's Paradise Lost (two books), Comus and Samson and the minor poems, XVII century lyrics, Bunyan's Pilgrim's Progress; (g) The Restoration: Butler's Hudibras (selections), Dryden's Absalom and Achitophel (selections), All for Love, Congreve's Way of the World, Buckingham's Rehearsal; (h) The Classic Period: Addison's and Steele's essays, Pope's Moral Essays, or Essay on Man (selections), or Rape of the Lock, Swift's Gulliver's Travels (I and II), Goldsmith's Traveller, Deserted Village, She Stoops to Conquer, Sheridan's Rivals, School for Scandal, Johnson's Rasselas, Lives of the English Poets (one), Vanity of Human Wishes, XVIII century lyrics; (i) The Georgian Period: poetry

† Attention is called to cheap editions such as Everyman's Library, The Walter Scott Library (the Camelot Series), Cassell's National Library, Morley's Universal Library, the Carisbrooke Library, The Temple Editions, Macmillan's Pocket Classics, the Riverside Library, Holt's English Readings, Bohn's Library, Ginn's English Classics.



of Scott, Byron, Keats, Shelley, Wordsworth, and Coleridge; prose of De Quincey, Lamb, and Hazlitt and Scott; (j) Victorian Age: poetry of Tennyson, Browning, Arnold, Swinburne; prose of Thackeray, Carlyle, Ruskin, Emerson, Arnold.

14b'. (3 units.) Novel, Drama, Essay, American Literature, Composition. Minimum, any two of the half-year courses following:

I. The Novel.†—Five books, one from each of five subdivisions under 14a'-3, together with an outline history of the novel.

II. The Drama.† Minimum, ten plays, at least one in each of five subdivisions following: (a) Sketch of the development of drama before Shakespeare, one mystery, and one morality; (b) Shakespeare—one of the romantic comedies, one of the greater tragedies; (c) Shakespeare's contemporaries—Jonson's *Alchemist*, or the *Silent Woman*, Dekkers' *Shoemaker's Holiday*; Beaumont and Fletcher's *Philaster*, or Marlowe's *Jew of Malta*, or Webster's *Duchess of Malfi*; (d) The Restoration—Dryden's *All for Love*, or *Conquest of Granada*, Otway's *Venice Preserved*; Congreve's *Way of the World*, or Farquhar's *Beaux Stratagem*; (e) The Eighteenth Century—Steele's *Conscious Lovers*, Goldsmith's *She Stoops to Conquer*, Sheridan's *Rivals* or *School for Scandal*; (f) Victorian Age—Bulwer's *Richelieu*, or Knowles' *Virginius*, or Tennyson's *Becket*, or Browning's *Strafford*; (g) Present Day—Phillips's *Herod*, or Yeats's *Land of Heart's Desire* and the *Countess Kathleen*. Synge's *Riders to the Sea* and *Shadow of the Glen*, or *Well of the Saints*; or Lady Gregory's *Spreading the News*, *Work House Ward*, *At the Gaol Gate*, Shaw's *Caesar and Cleopatra*, or *You Never Can Tell*, or Galsworthy's *Strife*, or *Silver Box*.

III. The Essay.<sup>2</sup> Minimum, selections from at least six of the subdivisions following: (a) Bacon and Montaigne. Bacon's *Studies*, *Truth*, *Adversity*, *Death*, *Riches*, *Adversity*. An equivalent from Montaigne in Florio's or Cotton's translation. (b) Addison and Steele: *Selected essays*, or *De Coverley Papers*; (c) Lamb and Hazlitt: *Essays of Elia* or *Table Talk*; (d) De Quincey's or Leigh Hunt's essays; (e) Macaulay's *Literary Essays*; (f) Carlyle's *Heroes* (at least one chapter), or chapters from *Sartor Resartus*, or *Miscellaneous Essays*; (g) Emerson's *Compensation* (or one other) or *Representative Men* (one chapter) or *English Traits* (selections); (h) Ruskin's *Crown of Wild Olive* (one chapter), or *Sesame and Lilies* (Part. I) or *Unto This Last* (one chapter); (i) Thackeray's *Roundabout Papers* (selections) or *English Humorists* (one chapter); (j) Arnold's *Essays in Criticism* (second series), or *Discourses in America* (one essay from either volume); (k) Stevenson's *Virginibus*

† Attention is called to cheap editions such as Everyman's Library, The Walter Scott Library (the Camelot Series), Cassell's National Library, Morley's Universal Library, the Carisbrooke Library, The Temple Editions, Macmillan's Pocket Classics, the Riverside Library, Holt's English Readings, Bohn's Library, Ginn's English Classics.

Puerisque (one), or Memories and Portraits (one), or Across the Plains (exclusive of narratives and descriptions); (l) James's Memories and Studies, or On Life's Ideals; (m) Dickinson's Appearances, or Modern Symposium, or Justice and Liberty (selections), Chesterton's Heretica, or Tremendous Trifles; (n) Lowell's Literary Essays (one); (o) Crothers's The Gentle Reader (one) or The Pardoner's Wallet (one).

IV. American Literature.† Minimum, selections from the works of at least six of the following writers: (a) Irving's Tales of a Traveller, or the Sketch Book; (b) Cooper's Leatherstocking Tales (one); (c) Longfellow's Shorter Poems, or Tales of a Wayside Inn, or Miles Standish; (d) Bryant's Thanatopsis, Death of the Flowers, Forest Hymn, Water Fowl, etc.; (e) Whittier's Shorter Poems, or The Ranger, or Snow Bound, or Brother of Mercy, or Abraham Davenport, or Skipper Ireson's Ride; (f) Lowell's Commemoration Ode or Bigelow Papers (selections), or My Study Windows (one essay); (g) Holmes's Chambered Nautilus, Last Leaf, The Deacon's Masterpiece, or Autocrat of the Breakfast Table (selections); (h) Emerson's Compensation, or Self-Reliance, or the American Scholar, or the Fortune of the Republic—The Rhodora, Two Rivers, Terminus, The Problem, Concord Bridge, Fourth of July Ode, The Days; (i) Poe's Raven, Annabel Lee, Ulalume, Fall of the House of Usher, The Black Cat, The Gold Bug, etc.; (j) Hawthorne's Scarlet Letter, or Blithedale Romance, or House of Seven Gables, or Twice Told Tales; (k) Bret Harte's Tales of the Argonauts; (l) Lincoln's Gettysburg Speech and Second Inaugural; (m) Thoreau's Walden, or Burrough's Idyll of the Honeybee; (n) Lanier's Songs of the Marshes of Glynn; (o) Sill's Poems; (p) Riley's Poems.

V. Composition. Minimum, a half-year course. Advanced studies in writing, such as daily themes, brief descriptive or narrative sketches; semi-weekly, weekly, or fortnightly essays; optional study of specimens and models.

15a<sup>1</sup>. Elementary French. (3 units.) So much of subject 15a<sup>2</sup> as may be done in accredited schools in one year at the rate of five periods per week. No regular examination will be given in this subject.

15a<sup>2</sup>. Elementary French. (6 units.) At the end of the elementary course the student should be able to pronounce French accurately; to read ordinary French prose; to understand, write and speak French in simple sentences based on some text or on the ordinary affairs of life.

The work should comprise: (1) Careful attention to pronunciation. (2) The essentials of the grammar, especially the regular and most com-

† Attention is called to cheap editions such as Everyman's Library, The Walter Scott Library (the Camelot Series), Cassell's National Library, Morley's Universal Library, the Carisbrooke Library, The Temple Editions, Macmillan's Pocket Classics, the Riverside Library, Holt's English Readings, Bohn's Library, Ginn's English Classics.

mon irregular verbs, the forms and positions of pronouns, the uses of prepositions and conjunctions. (3) The reading of about 200 to 350 duodecimo pages of modern prose. (4) Writing based on the texts read, and on the affairs of every-day life.

15a<sup>2</sup>. Intermediate French. (3 units.) At the end of the intermediate course the student should be able to read French of moderate difficulty; to write ordinary French in the narrative form; to carry on a simple conversation in French.

The work should comprise: (1) A review of the essentials of the grammar, especially the use of the auxiliary and modal verbs; the meaning of the moods and tenses; a full knowledge of irregular verbs; the essentials of syntax, the use of the pronoun, the verb-forms required in dependent clauses, special attention being given to the use of the subjunctive. The rendering of connected English prose in French is a valuable exercise in practical grammar. (2) The reading of from 300 to 500 pages, from at least four standard authors. Some of this should be done outside of the class, and written reports made upon it in French. (3) The writing of many letters and short themes, together with oral and written reproduction of French texts.

15a<sup>4</sup>. Advanced French. (3 units.) At the end of the advanced course the student should be able to read more difficult French of a literary character belonging to periods not earlier than the seventeenth century; to write in French a short essay on some simple subject connected with the works read; to carry on a conversation in French.

The work should comprise from 400 to 600 pages of standard French; the writing of numerous short themes in French; explanation and discussion of the text in French. The course should be carried on in French, so far as this is practical.

The reading of verse of suitable difficulty comes naturally into the work of all classes. Some comedy also should be read in each course.

All teachers should consult the following pamphlet issued by the University of California for the Association of Romanic Language Teachers of California: "A Four Years' Course in French and Spanish for Secondary Schools, April, 1916."

15b<sup>1</sup>. Elementary German. (3 units.) So much of subject 15b<sup>2</sup> as may be done in accredited schools in one year at the rate of five periods per week. No regular examination will be given in this subject.

15b<sup>3</sup>. Elementary German. (6 units.) The ability to read at sight easy German prose, to translate correctly simple English sentences into German, and to understand and answer, in German, simple questions on passages in the reading; a knowledge of the elements of German grammar.

The reading in Elementary German should amount to at least 150 pages of graded modern prose.

The requirement in grammar includes: the regular inflection of nouns, adjectives, articles, pronouns and weak verbs; the inflection of the more usual strong verbs; the more common prepositions; the ordinary uses of the modal auxiliaries; the elements of syntax, especially the rules concerning word-order and the use of the subjunctive.

15b<sup>3</sup>. Intermediate German. (3 units.) The ability to read at sight ordinary German prose or poetry, to translate correctly into German a passage of easy English, and to carry on a simple conversation in German; a knowledge of the essentials of German grammar.

The reading in Intermediate German should amount, in addition to that done in the elementary course (15b<sup>1</sup>), to at least 350 pages of recent and classical prose and poetry.

The requirement in grammar includes the inflection of the less usual strong verbs, the rules concerning the use of articles, cases, auxiliaries of all kinds, tenses and moods, and the elements of word-formation.

15b<sup>4</sup>. Advanced German. (3 units.) The ability to read at sight any not exceptionally difficult piece of German prose or poetry from the literature of the last one hundred and fifty years, to translate into German a passage of ordinary English prose, to answer in German questions relating to the lives and works of great writers studied, and to write. in German, a short, independent theme upon some assigned subject.

The reading in Advanced German should amount to at least 600 pages of good modern (including eighteenth century) literature.

15c<sup>1</sup>. Elementary Spanish. (3 units.) So much of subject 15c<sup>2</sup> as may be done in accredited schools in one year at the rate of five periods per week. No regular examination will be given in this subject.

15c<sup>2</sup>. Spanish. (6 units.) (1) Careful pronunciation together with an accurate knowledge of the essentials of the grammar, especially the verbs. (2) The ability to read ordinary Spanish prose, of which about 250 to 400 duodecimo pages should be read. (3) The ability to write ordinary Spanish. (4) The ability to carry on a simple conversation based on a text or on the ordinary affairs of life. [For more detailed suggestions see elementary French, subject 15a<sup>2</sup>.]

15c<sup>3</sup>. (3 units.) (1) Exercises in composition based on some standard work; thorough review of the essentials of grammar; the agreement, position and apocope of adjectives; inflection and position of pronouns; formation of augmentatives and diminutives; prepositions, and the Spanish verb—its conjugation, irregularities, modes and tenses. (2) The reading and translation into idiomatic English of from 350 to 500

pages from three or more standard Spanish authors. Some of this reading may be done outside the class under the supervision of the instructor.

At the end of the intermediate course the student should be able to translate at sight ordinary Spanish; to write in Spanish on easy themes, showing his ability to construct simple sentences, and to carry on a conversation in Spanish.

15c. (3 units.) At the end of the advanced course the student should be able to read with ease any modern Spanish novel or play; to write or speak readily of what he has read (or on any other subject of moderate difficulty); and to carry on a conversation in Spanish with a fair degree of fluency.

The work should comprise: (1) The reading of no less than 600 pages from standard Spanish authors, including one play in verse. (2) Continuation of grammar drill based on the text read. (3) The writing of letters and synopses of books read in or outside of the class. Classes should be conducted mainly in Spanish.

All teachers should consult: "A Four Years' Course in French and Spanish for Secondary Schools, April, 1916."

16. Free-hand Drawing. (3 units.) Representing not less than two years' work of not less than four hours a week. The study of light and shade and perspective, by drawing and shading with lead pencil, from geometrical models (such as the cube, sphere, cylinder, etc., singly and in groups) and from simple objects related to these in form.

17. Geometrical Drawing. (3 units.) This requirement represents one daily exercise during one school year, preferably following the course in Free-hand Drawing. It calls for continuous training in the use of drawing instruments, in the solution, by graphic methods, of such geometric problems as shall emphasize the necessity of accuracy and neatness. The course should be a general one, affording preparation for technical drawing as taught in the colleges of engineering, as well as for all other purposes.

18. Industrial Arts. The basis of these requirements is instruction in a regularly organized school of secondary or higher grade, the work of one school year, ten periods a week, being valued at 3 units. What is desired is an intelligent use of the tools, materials and processes pertaining to one or more of the important mechanical, industrial or domestic arts, together with a substantial knowledge of underlying principles.

18a. Mechanical Arts. (From 1½ to 9 units.)

Woodwork, forgework, molding, machine shop practice, plumbing, electrical work, or any other toolwork that may assume in educational institutions an importance justifying recognition by the University. Not more than 3 units will be allowed for any one line of toolwork, nor will

credit be given for any line that has not been pursued for a sufficient length of time to represent  $1\frac{1}{2}$  units.

18b. Applied Art. (From  $1\frac{1}{2}$  to 3 units.)

Clay modeling, wood carving, art metal work, etc., with power of designing the article to be produced.

18c. Clothing. (From 3 to 6 units.)

All study which may be classed under this heading, whether of garment-making or millinery should be based upon a careful study of the proportions of the figure to be fitted and of the principles of construction underlying the making of such garments, with emphasis upon the choice of texture and color in serviceable and suitable material. Emphasis should also be laid upon efficient workmanship in carrying out these processes.

This work should represent a daily exercise for two school years, preferably during the last two years of preparation for the University.

*Elementary sewing* courses should include practice in mending, in renovation of clothing, in preparation and care of household fabrics, in the making of underwear, simple dresses, and infant layettes, with consideration of the purchase of suitable material for all of these problems. A brief introduction to the study of fibres and their production should be correlated with the course in geography; especially should cotton and flax be considered with this course since they constitute the materials chiefly used in elementary work.

*Advanced sewing* courses should include the principles of construction as applied to dressmaking: (1) through the skillful and appropriate use of ready-made paper patterns, (2) by problems in simple drafting of typical forms and the adaptation of these to other forms and to the prevailing style, (3) through practice in modeling on the form in tissue paper, cambric, crinoline or unbleached muslin, with careful study of the proportions of the figure to be fitted and the selection of suitable material for some of the models so designed to be carried out as finished garments. Silk and woolen materials should be used in many of these problems and discussion of them as the two remaining important fibres in commercial production and manufacture should be included.

*Tailoring* courses should include the cutting, inner construction, fitting and finishing with good technique of at least one street suit (a coat and skirt) preferably of wool, or a sport suit of wool.

18d. Food preparation. (From 3 to 6 units.)

Cooking, with emphasis on the fundamental principles of physics and chemistry which underlie the work. Elementary dietetics and nutrition, with problems of purchasing. The requirement represents at least a daily exercise during one or two school years, which falls within the last

two years of preparation for college, and which is preceded or accompanied by such a course in chemistry or physics as satisfies the requirements of subjects 11 or 12b. A note book (see under physics) is required.

**18c. Shelter. (1½ units.)**

Housing, separate and collective, with elementary problems in sanitation, house management and the choice and purchase of equipment.

**19a. Agriculture. (3 units.) First-year subject.**

Agriculture—its importance, dependence of other industries upon it. Dependence of agriculture upon the various sciences. The requirement represents the equivalent of five exercises a week for one year.

The work of this course should be based on plant study, since plant production is the basis of agriculture. It should include instruction in the elementary and fundamental principles of biology, including physiology and bacteriology, chemistry, physics and physical geography, these principles to be taken up in connection with the study of the growth and development of the plant, and of its environment. It should take up first an orderly and progressive study of the essential and fundamental facts as to plant composition, structure, physiology and heredity, followed by a study of the environmental factors affecting plants, light, heat, moisture, air, soil (characteristics, tillage, drainage, irrigation), plant food (fertilizers), and repressive agencies. Lastly should come more or less study of the various classes of economic plants and of individual local crops and their rotation. This work should be made as practical as possible, with special attention to the application of the principles studied to local problems. (See aim and method suggested under 12g, General Science.) About one-third of the time should be given to demonstrations by the instructor and to laboratory work by students; another third to excursions, field trips, garden work, greenhouse work and outdoor practicums, and the remainder of the time to lectures and recitations.

The above course is recommended as the first-year science study for schools desiring to provide instruction in general science and to introduce the study of agriculture at the same time.

**19b to 19c. Agriculture, second and third year subjects.**

Owing to the great variety of local conditions in this state, no attempt has been made to specify as to the selection and exact order of the subjects in this group.

**19b. Dairying. (1½ units.)**

A half-year course of five periods per week or the equivalent. The study should embrace the composition of milk, the Babcock test for fat

and adulterations, the separation of cream from milk, cream ripening, churning, washing, working and packing butter, and the principles of cheese-making. Especial attention should be paid to the sanitary production and handling of milk from the cow to the consumer. At least one-half of the exercises should be laboratory or field work. The laboratory work should consist of a thorough drill in the use of the Babcock milk test and in detecting adulterations by using the same test and the lactometer; in a study of the effect of pasteurization, sterilization and bacterial action upon the keeping qualities of milk; and in the preliminary operations of cheese-making, by a study of the use of rennet, pure culture starters, etc. The ground to be covered is represented in Wing's "Milk and Its Products," and Farrington and Woll's "Testing Milk and Milk Products."

19c. Live Stock. (3 units.)

The requirement represents the equivalent of five exercises per week for one year.

**Types and Breeds of Live Stock.** Study of the history of important breeds and types of live stock, methods used to develop these breeds, distinguishing characteristics of standard breeds, and the special merits of each. Text-book study should be supplemented with pictures, charts and lantern slides. (See Plumb's "Types and Breeds of Farm Animals.")

**Stock Judging.** The theoretical part of this work should be done in the classroom by the use of charts, lantern slides and the score card. Practice should consist in scoring of individual animals owned in the vicinity or borrowed from more distant farms. Competitive judging should be done by occasional visits to the best herds and flocks in the region. (See Craig's "Stock Judging.")

**Care and Management.** Study of feeds and feeding, including individual or group study of experiments with rations and cost of keeping domestic animals; sanitary housing of live stock, including study of plans and inspection of modern barns and dairies; common diseases, their prevention and cure. (See Henry's "Feeds and Feeding," Jordan's "The Feeding of Animals," and Mayo's "Care of Animals," and "Diseases of Animals.")

19c'. Live Stock. (1½ units.)

A half-year course of five periods per week, or the equivalent, to be devoted to such portions of the requirements for 19c as are adapted to any school where a full year course may not be given. This course may be arranged to extend throughout the year, with work equivalent to at least two and one-half periods each week.



**19d. Poultry. (1½ units.)**

The requirement represents the equivalent of five exercises per week for one half-year.

**Types and Breeds.** Study of the various breeds of poultry, their distinguishing characteristics and special merits and deficiencies; poultry breeding, ideals and methods. Text-book study should be accompanied by pictures and charts to supplement the study of live specimens. Practice in judging and use of the score card should be given. (See Robinson's "Principles and Practice of Poultry Culture"—best general reference; Basley's "Western Poultry Book"—especially for California; also Brigham's "Progressive Poultry Culture," Valentine's "How to Keep Hens for Profit," and "The American Standard of Perfection" by the American Poultry Association.)

**Care and Management.** Fundamental principles of successful poultry culture; natural and artificial incubation, and breeding; feeds and feeding; location, construction and sanitation of poultry houses and yards; scoring eggs and poultry plants; keeping records and figuring profits. (See Lewis' "Poultry Laboratory Guide," Fiske's "Poultry Architecture," and "Poultry Appliances and Handicraft.")

**19e. Horticulture. (3 units.)**

This course should follow a year's work in plant study which may be secured in any one of three ways: (1) by taking subject 12c (Botany); (2) by taking subject 19a (Agriculture) plus a year in biology since about one-half of each of these subjects should consist of plant study; (3) by taking 12g (General Science) plus a year of biology for the same reason. The requirement represents the equivalent of five exercises per week for one year.

The work should include study of the fruits and vegetables of California, and especially of the individual pupil's home region as to varieties, methods of growth, cultivation, improvement, and marketing. About two-fifths of the work should be practical in nature, covering propagation of plants, mixing sprays and spraying; mixing and applying fertilizers; pruning and treating wounds; planting, cultivating and irrigating trees and vines; gathering and packing fruits and vegetables; decorating home and school grounds with trees, shrubs, vines and flowers. Part of the field work can be done at school and part in neighboring orchards, vineyards, nurseries, truck gardens, and packing houses.

A weekly schedule of garden, nursery, propagating house and orchard work extending throughout the school year should be prepared by the teacher. This plan should indicate the laboratory studies of seeds and seed testing, comparative morphology, variation, classification of fruits,

and study of insect pests, and plant diseases, in so far as these can be arranged in advance. As above stated, two-fifths of the course should be practical outdoor work. About one-fifth of the course should be devoted to laboratory exercises. The remaining two-fifths of the time should be given to the study of texts and references and desk work such as preparation of note books, drawing plans for orchards, truck farms, and ornamental planting, plans for drying yards, packing houses, etc.

Best references: Wickson's "California Fruits" and "California Vegetables;" Bailey's "Principles of Fruit Growing," Budd-Hansen's "American Horticultural Manual," Paddock and Whipple's "Fruit-Growing in Arid Regions," Card's "Bush Fruits," Bailey's "The Pruning Book," "The Nursery Book," and "The Forcing Book," Hume's "Citrus Fruits and Their Culture," Lodeman's "The Spraying of Plants," Bailey's "The Principles of Vegetable Gardening" (Bulletins of the United States and State Departments of Agriculture.)

19e. Horticulture. (1½ units.)

A half-year course of five periods per week, or the equivalent to be devoted to such portions of the requirement for 19e as are adapted to any school where a full year course may not be given. This course may be arranged to extend throughout the year with work equivalent to at least two and one-half periods each week.

19f. Fourth-year subject. Farm Mechanics, Farm Architecture and Farm Management. (3 units.)

The fourth-year work should consist of an elementary study of the more important topics dealing with farm mechanics, farm architecture and general farm management or farm economics; that is, a study of the machinery needed on the farm, and its uses, the planning and construction of farm buildings, and the things that make up farm work and life in their relation to each other.

The first half-year may well be divided between farm mechanics and farm architecture, the last half-year being devoted to problems of general farm management.

The work in farm mechanics should include a study of the kinds, construction and operation of farm machines gained through examination, taking down and setting up, and observation or actual practice with machines in the field. Some time should also be given to the study of the kinds, construction and uses of farm motors.

The study of farm architecture should include the planning and construction of farm buildings and of farm water supply and sewerage sys-

tem. There should be practice in the designing and drawing of farm houses, barns, stables, poultry yards, hog houses and other farm buildings, accompanied by a study of materials and calculations as to the quantity and cost of materials and labor for these buildings. Attention should also be given to the convenient, artistic and sanitary arrangement of farm buildings, and grounds. If possible, there should be some practice in the actual construction of farm buildings, or at least in the making of models of such buildings.

The work in general farm management should include a study of capital and labor on the farm and choice of a farm, the outlay of a farm, systems of farming, marketing problems, the keeping of records and accounts and some consideration of co-operation and other problems of rural social life.

**19f. Farm Mechanics, Farm Architecture and Farm Management. ( $1\frac{1}{2}$  units.)**

A half-year course of five periods per week or the equivalent to be devoted to such portions of the requirements for 19f as are adapted to any school where a full year course may not be given. This course may be arranged to extend throughout the year with work equivalent to at least two and one-half periods each week.

*Explanatory Note*—The total number of units offered by a school giving all the full length courses would be 15, that is 19a (3) + 19b ( $1\frac{1}{2}$ ) + 19c (3) + 19d ( $1\frac{1}{2}$ ) + 19e (3) + 19f (3). It is not likely that many schools will offer all these and many will probably prefer to offer half-year instead of year courses in certain subjects as listed above.

The total amount of credit that may be used toward university matriculation is now 9 units.

**20a. Economic Geography. ( $1\frac{1}{2}$  units.)**

Five periods a week for one half-year.

Economic geography should be considered as an aspect of general geography, rather than as a distinct branch of the science. It should be based on the general principles of mathematical, physical and biogeography. While including a study of countries, products, trade routes, etc., the chief emphasis of the course should be placed on the relations which exist between the fundamental principles of geography and the economic interests of man.

**20b. Commercial and Industrial History. (3 units.)**

This subject should comprise, in broad outline, the development of commercial and industrial activities in the western world. It should

discuss such subjects as the economic inheritance from Rome and the East; the gradual renewal of trading activity after the Teutonic invasions; the revival of commerce under Arab influence; the growth from village to town economy; the Renaissance in Italy and the commercial supremacy of the city republics; the Age of Discovery and the development of economic "nationalities"; the industrial revolution and the conception of international division of labor; modern international trade and its significance, etc. Emphasis should be laid on the interaction of political and economic factors in the growth of Western civilization; on the evolution and decay of economic "institutions"; and on "movements," rather than the facts of any particular period.

**20c. Bookkeeping. (3 units.)**

A knowledge of the principles of double entry bookkeeping, based on five double periods weekly for one year, or its equivalent.

**20d. Stenography and Typewriting. (3 or 6 units.)**

Work in these subjects normally covering one year will be given a credit of 3 units; the work of two years will be given a credit of 6 units, with the following conditions:

Not more than one-fourth of the accredited work is to be typewriting.

For 3 units credit, the student should be able to take stenographic dictation at the rate of 75 words per minute. For 6 units, the rate is 125 words per minute.

The student must also have ability to transcribe notes satisfactorily on the typewriter.

**21. Music. (3 to 9 units.)**

**21a. Sight-singing and Dictation; Symbols and Terminology of Musical Notation. (3 units.)**

1. Ability to read, without hesitation, at sight, in good rhythm, a given simple melody in any commonly used key (major or minor) containing occasional notes out of the scale, but no very remote modulations, i.e., not beyond dominant or subdominant or relative major or minor.

2. Ability to write in musical notation (G and F clefs) marking proper meter (2, 3, or 4) any simple melody when played or sung at dictation. Familiarity with the three primary triads is useful, but not required.

**21b. Elements of Composition; Diatonic Harmony and Structure. (3 units.)**

Harmonic series. Intervals. Erection (major) of the three primary triads. Root position, inversion and doubling in major. Formation of scales. Relations of scale constituents to root and their tendencies. Consonance and dissonance. Chord connection in four parts. Harmonizing of melodies. Elements of melodic construction; cadence; phrase and

double phrase. Minor mode. Secondary triads (II, VI, III) and their use. Dominant seventh and its use. Other sevenths (within the key). Suspension and retardation. Modulation (simple). Anticipation and embellishment.

For students who continue the study of music in the University credit for subject 21b should be preceded or accompanied by credit in subject 21a.

**21c. Instrumental or Vocal Technique. (3 units.)**

1. Ability to perform with satisfactory technique and intelligent interpretation one or more numbers in one of the following sections:

- (a) Pianoforte: Bach, "Well-Tempered Clavichord," Prelude or Fugue; 2 and 3 part Inventions; Mozart or Beethoven, a sonata; Chopin, study, nocturne or prelude of moderate difficulty.
- (b) Violin: Bach, Handel, Mozart, Beethoven, a sonata; Rode, Fiorillo, a study of moderate difficulty; Viotti, Spohr, a concerto.
- (c) Exceptional technique upon any other orchestral instrument may be given credit in manner similar to above.
- (d) Voice (well placed and trained): Bach, Mozart, Schubert, Schumann, Brahms, Franz, Wagner, songs; or an aria by an old Italian master.

2. Test is made of the ability to read at sight a short piece of moderate difficulty.

**21d. History of Modern European Music, about 600-1900. (3 units.)**

Understanding of broad musical terms such as rhythm, melody, harmony; scales, counterpoint, fugue, sonata-form, symphony, quartette, sonata, a *capella*, orchestra. Difference between meter, rhythm and tempo, etc.

Outline of history of three great periods (men and works): Palæstrina-Bach, Bach-Beethoven, Beethoven-present day.

Understanding of the principles and materials of music and appreciation of the broad trend of general development is to be preferred to obscure information and doubtful biographical detail.

**METHODS OF ADMISSION****1. ADMISSION BY EXAMINATION***Times and Places of Examination*

Matriculation examinations are held in August and in January of each year; but the examinations in January are primarily for the purpose of enabling students in the University to remove matriculation deficiencies. Applicants for admission who present certificates from their teachers that they are prepared in the subjects they offer will be admitted to the January examinations. Such certificates must be filed with the Recorder of the Faculties before the examinations.

No person save a registered student of the University will be allowed to take any matriculation examination without having first filed an application for admission.

A circular concerning the matriculation examinations may be obtained by addressing the Recorder of the Faculties.

*College Entrance Examination Board*

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations conducted by the University of California in all of the preparatory subjects, but at present the Board holds no examination covering the ground of English 14b.

The entrance examinations of the College Entrance Examination Board are usually held during the third week in June—1918, June 17–22.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application.

If the application is received sufficiently early the examination fee will be \$5.00 for candidates examined in the United States and Canada and \$15.00 for candidates examined outside of the United States and Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

The applications and fees of candidates who wish to be examined outside of the United States and Canada must reach the Secretary of the Board at least five weeks in advance of the first day of the examinations. The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River must

be received at least three weeks in advance of the examinations. The applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River or on the Mississippi River must be received at least two weeks in advance of the first day of the examinations.

When the candidate has failed to obtain the required blank form of application for examination the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidates concerned, but only upon payment of \$5.00 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1918, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

Points on the Pacific Coast at which examinations are usually held are as follows: Berkeley, Los Angeles, Nordhoff, Stanford University, Portland, Seattle, Spokane, Tacoma.

#### *Dividing of Matriculation Examinations*

An applicant for admission may, if he prefers, take his matriculation examinations in two parts—(a) preliminary, (b) final—but not more than two. The preliminary examination may be taken either in August or January. The final examination must be taken not later than eighteen months after the preliminary examination. The applicant may divide his examinations in any way that he prefers, provided that he passes the required 45 units during the two examination periods taken together. Applicants who are twenty-one years of age or who have been graduated from four-year courses in high schools or other secondary schools are not subject to the above limitations as to the division of examinations, but they may take their examinations at such times as they prefer until all the required examinations shall have been passed. For the purpose of division between two series of examinations, the examinations given in June by the College Entrance Examination Board and those in August given by the University in the same year may count as one series, the applicant, at his option, taking a part in June and a part in August.

**2. ADMISSION FROM ACCREDITED SCHOOLS IN CALIFORNIA**

Admission from accredited schools is regulated by the following Order of the Regents, passed March 4, 1884, and amended September 10, 1895, and January 10, 1905:

“Upon the request of the principal of any public or private school in California whose course of study embraces, in kind and extent, the subjects required for admission to any college of the University at Berkeley, a committee of the Academic Senate will visit such school and report upon the quality of the instruction there given. If the report of such committee be favorable, a graduate of the school, upon the personal recommendation of the principal, accompanied by his certificate that the graduate has satisfactorily completed the studies of the course preparatory to the college he wishes to enter, may, at the discretion of the Faculty of such college, be admitted without examination.

“Principals’ applications made in accordance with the provisions of the foregoing paragraph must be in the hands of the Recorder of the Faculties, at Berkeley, on or before the first day of December of each school year.”

No school will be accredited unless its course of study includes all the subjects required for admission to at least one of the Academic Colleges.

A recommendation from the principal of an accredited school must state distinctly that the graduate in whose favor it is issued was in attendance at that school for at least one year immediately preceding his graduation; or it must be indorsed, i.e., fully concurred in, by the principal or principals of the accredited school or schools previously attended by the applicant.

Recommended graduates of accredited schools who wish to postpone their entrance to the University should send their recommendations, with specific request for extension, to the Recorder of the Faculties. Extension may be granted for one year, with the possibility of renewal, upon request. Recommendations become invalid if not presented within twenty months after graduation.



## LIST OF ACCREDITED SCHOOLS, 1916-17

NOTE.—The accrediting of secondary schools is an accrediting of *schools* rather than *subjects*. All recommendations issued by the principals will be provisionally accepted by the University, subject to the following conditions:

(1) Recommendations are to be issued only for the graduates of the regular courses of the school;

(2) Recommendations are to be based exclusively upon the regular work of the school and not upon private "coaching" or special examination;

(3) "Supplementary" recommendations—for work taken in the high school after the pupil's matriculation in a college or university—are not to be accepted in lieu of matriculation examinations;

(4) The status of every undergraduate student is probationary during his first year of residence in the University, and his final allowance of matriculation credit may depend upon his work during this probationary year;

(5) The scholarship records in the University of California for the first-year students from each of the accredited schools are kept in such a way as to show the scholarship standing of the school, as reflected by its representatives in the University; and this record is made use of in determining the status of the school as a possible candidate for future accrediting.

Recommended graduates who wish to postpone their entrance to the University should send their recommendations, with specific request for extension, to the Recorder of the Faculties. Extension may be granted for one year, with the possibility of renewal, upon request.

Recommendations in freehand and geometrical drawing are subject to approval by the department of drawing after the applicant has entered the University. Graduates of accredited schools who enter the University of California should bring their drawings with them to the University for inspection by the department.

All schools are accredited for one year only. For convenience, however, the accredited schools are grouped in two divisions. As to the institutions in Division A, there is, in general, a presumption that accrediting will be continued from year to year. The continued accrediting of the institutions in Division B is rendered somewhat uncertain by undeveloped organization, inadequate resources, or other causes.

## DIVISION A

*Public Schools*

Alameda High School—G. O. Thompson, Ph.D.  
Alhambra City High School—M. F. V. Routt.  
Alturas: Modoc Union High School—Mr. Anthony Rose.  
Anaheim Union High School—Mr. O. R. Prince.  
Angels Camp: Bret Harte Union High School—Mr. W. O. Campbell.  
Antioch: Riverview Union High School—Mr. F. E. Howard.  
Arcata Union High School—Mr. A. O. Cooperrider.  
Arroyo Grande Union High School—Mr. R. L. Bird.  
Auburn: Placer Union High School—J. F. Engle, Ph.D.  
Azusa: Citrus Union High School—Mr. F. S. Hayden.  
Bakersfield: Kern County Union High School—Mr. A. L. Ludden.  
Banning High School—Mr. R. H. Blee.  
Beaumont High School—Mr. R. B. Ransom.  
Berkeley High School—Mr. O. L. Biedenbach.  
Bishop Union High School—Mr. Lloyd Marquam.  
Bostonia: El Cajon Valley Union High School—Mr. J. L. Outler.  
Brawley Union High School—Mr. S. H. Thompson.  
Brentwood: Liberty Union High School—Mr. J. E. Webb.  
Burbank Union High School—Mr. M. M. Livingston.  
Calxico Union High School—Mr. F. I. Rittenour.  
Campbell Union High School—Mr. I. W. Snow.  
Cedarville: Surprise Valley Union High School—Mr. E. J. Welch.  
Centerville: Washington Union High School—Mr. G. W. Wright.  
Ceres High School—Mr. T. L. Brecheen.  
Chico High School—Mr. Irvin Passmore.  
Chino High School—Mr. J. E. Whistler.  
Claremont High School—Mr. F. F. Palmer.  
Clovis Union High School—Mr. P. H. Benson.  
Coalinga Union High School—Mr. C. L. Geer.  
College City: Pierce Joint Union High School—Mr. H. H. Sauber.  
Colton High School—Mr. G. H. Jantzen.  
Colusa High School—Mr. J. R. Grinstead.  
Compton Union High School—Mr. O. S. Thompson.  
Concord: Mount Diablo Union High School—Mr. R. S. Phelps.  
Corning Union High School—Mr. S. L. Brown.  
Corona High School—M. V. Staley, Ph.D.  
Coronado High School—Mr. W. A. Pratt.  
Covina Union High School—B. S. Gowen, Ph.D.  
Crescent City: Del Norte County High School—Mr. O. R. Hull.  
Crockett: John Swett Union High School—Mr. R. S. French.  
Delano Joint Union High School—Mr. J. B. Ely.  
Dinuba Union High School—Mr. Charles Carrigan.  
Dixon Union High School—Mr. G. L. Unnewehr.  
Dos Palos Joint Union High School—Mr. L. D. McKinley.  
Downey Union High School—Mr. A. D. Hoenshel.  
Easton: Washington Union High School—G. W. Steyer.  
El Centro: Central Union High School—Mr. W. T. Randall.  
El Monte Union High School—Mr. L. W. Babcock.  
Facedido High School—Mr. G. J. Roberts.  
Etna Mills: Etna Union High School—Mr. Harry Rode.  
Eureka City High School—Mr. J. L. Neighbor.

Exeter Union High School—Mr. S. J. Brainerd.  
 Fairfield: Armijo Union High School—Mr. W. M. Mackay.  
 Fallbrook Union High School—Mr. G. A. Harkleroad.  
 Fillmore Union High School—Mr. J. W. Gastrich.  
 Fort Bragg Union High School—Mr. J. S. Cotton.  
 Fortuna High School—Mr. C. H. Nelson.  
 Fowler Union High School—Mr. H. N. Caldwell.  
 Fresno High School—Mr. Frederick Liddeke.  
 Fullerton Union High School—Mr. E. W. Hauck.  
 Gilroy High School—Mr. E. E. Brownell.  
 Glendale Union High School—Mr. G. U. Moyses.  
 Gonzales Union High School—Mr. Duncan Stirling.  
 Grass Valley High School—Mr. J. S. Hennessy.  
 Gridley Union High School—Mr. G. T. Kern.  
 Hanford Union High School—Mr. H. M. Shafer.  
 Hayward Union High School—Mr. F. P. Johnson.  
 Healdsburg High School—Mr. H. R. Bull.  
 Hemet Union High School—Mr. O. B. Waite.  
 Hollister: San Benito County High School—Mr. James Davis.  
 Holtville Union High School—B. R. Crandall, Ph.D.  
 Huntington Beach Union High School—Mr. A. E. Paine.  
 Huntington Park Union High School—Mr. J. M. Reeder.  
 Imperial: Imperial Valley Union High School—Mr. J. J. Morgan.  
 Inglewood Union High School—Mr. G. M. Green.  
 Ione Union High School—Mr. I. C. Raymond.  
 Jackson Joint Union High School—Mr. L. H. Goldstein.  
 Kerman Union High School—Miss F. M. Gordon.  
 King City Union High School—Mr. H. N. Young.  
 Kingsburg Joint Union High School—Mr. E. H. Duval.  
 Lakeport: Clear Lake Union High School—Mr. J. L. Dixon.  
 Laton Joint Union High School—Mrs. M. E. Knudson.  
 Lemoore Union High School—Mr. J. F. Graham.  
 Lindsay High School—Mr. F. H. Boren.  
 Livermore Union High School—Mr. B. H. Painter.  
 Lodi Union High School—Mr. William Inch.  
 Lompoc Union High School—Mr. Valentine Smith.  
 Long Beach Polytechnic High School—Dr. David Burcham.  
 Lonsburg: Bonita Union High School—Mr. Arthur Durward.  
 Los Angeles: Franklin High School—Mr. C. B. Moore.  
 Los Angeles: Gardena Agricultural High School—Mr. J. B. Lillard.  
 Los Angeles High School—Mr. W. H. Housh.  
 Los Angeles: Hollywood High School—W. H. Snyder, Sc.D.  
 Los Angeles: Jefferson High School—Mr. Theodore Fulton.  
 Los Angeles: Lincoln High School—Miss E. P. Andrus.  
 Los Angeles: Manual Arts High School—A. E. Wilson, Ph.D.  
 Los Angeles: Polytechnic High School—Mr. W. A. Dunn.  
 Los Angeles: San Fernando High School—Mrs. E. C. Ingham.  
 Los Angeles: San Pedro High School—Mr. R. C. Daniels.  
 Los Angeles: Van Nuys High School—Mr. N. F. Smith.  
 Los Angeles: Wilmington High School—Mr. W. I. Travis.  
 Los Gatos High School—Mr. W. T. Walton.  
 Madera Union High School—Mr. F. O. Mower.  
 Martinez: Alhambra Union High School—Mr. D. O. Brillhart.  
 Marysville High School—Mr. J. O. Ray.

Mendocino Union High School—Mr. J. N. Keran.  
Merced Union High School—Mr. A. W. Meany.  
Modesto High School—Mr. J. C. Templeton.  
Monrovia City High School—Mr. A. R. Clifton.  
Montebello High School—Mr. E. L. Mitchel.  
Monterey Union High School—Mr. James McIntosh.  
Morgan Hill: Live Oak Union High School—Mr. L. H. Britton.  
Mountain View Union High School—Mr. J. I. Martin.  
Napa High School—Mr. J. S. Denton.  
National City: National High School—Mr. O. F. Seymour.  
Nevada City High School—Mr. F. E. Tuck.  
Newman: Orestimba Union High School—Mr. E. P. Halley.  
Nordhoff Union High School—Mr. W. W. Bristol.  
Norwalk: Excelsior Union High School—Mr. A. T. Vinacke.  
Oakdale Union High School—Mr. C. E. Overman.  
Oakland High School—Mr. C. E. Keyes.  
Oakland: John C. Fremont High School—Mr. E. M. Cox.  
Oakland: Technical High School—Mr. P. M. Fisher.  
Oakland: University High School—Mr. Herbert Lee.  
Oceanside: Oceanside-Carlsbad Union High School—Mr. E. J. Shives.  
Ontario: Chaffey Union High School—Mr. M. E. Hill.  
Orange Union High School—Mr. Delbert Brunton.  
Orland Joint Union High School—Mr. R. R. McMasters.  
Oroville Union High School—Mr. J. B. Hughes.  
Oxnard Union High School—Mr. W. D. Bannister.  
Pacific Grove High School—Mr. J. P. Ratzell.  
Palo Alto Union High School—Mr. W. H. Nichols.  
Pasadena High School—Mr. J. O. Cross.  
Paso Robles High School—Mr. A. L. Barker.  
Patterson Union High School—Mr. A. H. Abbott.  
Petaluma High School—Mr. W. O. Smith.  
Placerville: El Dorado County High School—Mr. D. B. Dill.  
Pomona High School—Mr. H. P. Reynolds.  
Porterville Union High School—Mr. W. A. Ferguson.  
Princeton Joint Union High School—Mr. N. S. Yoder.  
Puente Union High School—Mr. B. S. Millikan.  
Red Bluff Union High School—Mr. P. G. Ward.  
Redding: Shasta Union High School—Mr. J. O. Osborn.  
Redlands High School—Mr. H. G. Clement.  
Redondo Union High School—Mr. C. A. Langworthy.  
Redwood City: Sequoia Union High School—Mr. S. P. McCrea.  
Reedley Joint Union High School—Mr. L. B. Stevens.  
Richmond Union High School—Mr. B. X. Tucker.  
Rio Vista Joint Union High School—Mr. F. B. Smith.  
Riverside: Girls' High School—Mr. F. P. Taylor.  
Riverside: Polytechnic High School—Mr. Hugh Law.  
Sacramento High School—Mr. H. O. Williams.  
Saint Helena Union High School—Mr. G. F. Weber.  
Salinas Union High School—Mr. L. E. Kilkenny.  
San Bernardino High School—Mr. L. L. Beeman.  
San Diego High School—Mr. Arthur Gould.  
San Francisco: Girls High School—Dr. A. W. Scott.  
San Francisco: Lowell High School—Mr. Frank Morton.  
San Francisco: Mission High School—Mr. F. H. Clark.

San Francisco: Polytechnic High School—Mr. J. E. Addicott.  
 San Jose High School—Mr. C. M. Osenbaugh.  
 San Luis Obispo High School—Mr. A. H. Mabley.  
 San Mateo Union High School—Mr. W. L. Glascock.  
 San Rafael High School—Mr. I. M. Brazier.  
 Santa Ana High School—Mr. E. H. McMath.  
 Santa Barbara High School—Mr. C. A. Hollingshead.  
 Santa Clara High School—Mr. C. W. Townsend.  
 Santa Cruz High School—Mr. G. A. Bond.  
 Santa Maria Union High School—Mr. N. C. Smith.  
 Santa Monica High School—Mr. W. F. Barnum.  
 Santa Paula Union High School—Mr. F. K. Jones.  
 Santa Rosa High School—Mr. DeWitt Montgomery.  
 Santa Ynez: Santa Ynez Valley Union High School—Mr. A. S. Pope.  
 Sausalito: Tamalpais Union High School—Mr. E. E. Wood.  
 Sebastopol: Analay Union High School—Mr. C. E. Van Deventer.  
 Selma Union High School—Mr. Abner Downey.  
 Sonoma: Sonoma Valley Union High School—Mr. M. H. Rowell.  
 Sonora Union High School—Mr. F. C. Schofield.  
 South Pasadena City High School—Mr. B. O. Kinney.  
 Stockton High School—Mr. N. H. Garrison.  
 Susanville: Lassen Union High School—Mr. D. M. Durst.  
 Sutter Union High School—Mr. L. P. Farris.  
 Tulare High School—Mr. W. L. Frew.  
 Tuolumne: Summerville Union High School—Mr. W. W. Gayman.  
 Turlock Union High School—Mr. W. E. Hester.  
 Ukiah Union High School—Mr. C. Schoer, Jr.  
 Vacaville Union High School—Mr. E. W. Stoddard.  
 Vallejo High School—Mr. C. H. Nielsen.  
 Venice Union Polytechnic High School—Mr. C. T. Work.  
 Ventura Union High School—Mr. F. A. Wagner.  
 Visalia High School—Mr. A. M. Simons.  
 Watsonville High School—Mr. T. S. MacQuiddy.  
 Whittier Union High School—Mr. O. C. Albertson.  
 Williams Union High School—Mr. W. A. Doron.  
 Willits Union High School—Mr. Edward Blackman.  
 Willows: Glenn County High School—Mr. C. C. Childress.  
 Winters Joint Union High School—Mr. George Sanders.  
 Woodland High School—Mr. W. M. Hyman.  
 Yreka: Siskiyou Union High School—Mr. E. L. Van Dellen.

Total Public Schools (Division A)—199.

*Private Schools*

Berkeley: A. to Zed School—Miss C. L. Williams.  
 Berkeley: Miss Head's School—Miss M. E. Wilson.  
 Berkeley: The Randolph School—Miss F. A. Randolph.  
 La Jolla: Bishop's School—Miss Margaret Gilman.  
 Los Angeles: Girls' Collegiate School—Miss A. K. Parsons.  
 Los Angeles: Harvard School—Mr. R. B. Gooden.  
 Los Angeles: Immaculate Heart College—Sister M. Redempta.  
 Los Angeles: Marlborough School—Miss Grace Wiltshire.  
 Los Angeles: Westlake School for Girls—Miss F. H. de Laguna.  
 Oakland: College of the Holy Names High School—Sister M. Redempta.

Oakland: The Horton School—Miss S. W. Horton.  
 Oakland: Merriman School—Miss M. C. Merriman.  
 Pacific Beach: San Diego Army and Navy Academy—Captain T. A. Davis.  
 Palo Alto: Castilleja School—Miss M. I. Lockey.  
 Palo Alto: Miss Harker's School—Miss Catherine Harker.  
 Piedmont: Miss Ransom and Miss Bridges' School—Miss M. Ransom and Miss E. Bridges.  
 San Diego: Bishop's School—Mrs. A. D. MacLain.  
 San Francisco: Miss Burke's School—Miss K. D. Burke.  
 San Francisco: California School of Mechanical Arts—Mr. G. A. Merrill.  
 San Francisco: Cogswell Polytechnical College—Mr. G. B. Miller.  
 San Francisco: Hamlin School—Miss S. D. Hamlin.  
 San Francisco: Notre Dame High School—Sister Berchmans Joseph.  
 San Jose: College of Notre Dame—Sister M. Veronica.  
 San Jose: Notre Dame High School—Sister M. Veronica.  
 San Rafael: Dominican College—Sister Mary Louis.  
 San Rafael: Mount Tamalpais Military Academy—Mr. N. F. Vanderbilt.

Total Private Schools (Division A)—26.

Total Public and Private Schools (Division A)—225.

## DIVISION B

### *Public Schools*

Alpaugh High School—Mr. H. K. Biddulph.  
 Anderson Union High School—Mr. H. R. Gaines.  
 Biggs Union High School—Mr. L. S. Pratt.  
 Boonville: Anderson Valley Union High School—Mr. T. J. Roesman.  
 Boulder Creek Union High School—Mr. H. C. Smith.  
 Calistoga Joint Union High School—Mr. H. M. Monroe.  
 Caruthers Union High School—Mr. G. M. Sheldon.  
 Cloverdale Union High School—Miss Hanna Pierson.  
 Corcoran Union High School—Mr. C. L. Anderson.  
 Covelo: Round Valley Union High School—Mr. W. M. Culp.  
 Danville: San Ramon Valley Union High School—Mrs. E. V. Galvin.  
 Denair High School—Mr. L. J. Knapp.  
 Elk Grove Union High School—Mr. A. W. Armitage.  
 Esparto Union High School—Mrs. H. J. Shute.  
 Fair Oaks: San Juan Union High School—Mr. O. H. Close.  
 Ferndale Union High School—Mr. A. G. Grant.  
 Galt Joint Union High School—Mr. William Bland.  
 Gustine Union High School—Mr. C. R. Perrier.  
 Half Moon Bay Union High School—Mr. L. R. Switzer.  
 Hughson Union High School—Mr. F. F. Otto.  
 Irwin: Hilmar Colony Union High School—Mr. Herbert Kittredge.  
 Julian: Cuyamaca Union High School—Mr. R. N. Rushforth.  
 Lakeside: Riverside Union High School—Mr. E. G. Adams.  
 Lancaster: Antelope Valley Union High School—Mr. G. H. Bell.  
 LeGrand High School—Mr. G. W. Hann.  
 Lincoln Union High School—J. H. Molineux, Litt.D.  
 Los Angeles: Owensmouth High School—Mr. G. W. Monroe.  
 Loyalton: Sierra Valley Joint Union High School—Mr. G. W. Hughes.  
 Maricopa High School—Mr. J. R. Cookman.  
 Maxwell Union High School—Mr. E. W. Locher.

Needles High School—Mr. C. B. Collins.  
 Orosi Union High School—Mr. G. H. Wilkinson.  
 Perris Union High School—Mr. E. T. Boughn.  
 Point Arena Union High School—Mr. C. W. Fulkerson.  
 Quincy: Plumas County High School—Mr. L. A. Pringle.  
 Ramona Union High School—Miss M. B. Moffett.  
 Ripon Union High School—Mr. L. L. Evans.  
 Riverdale Joint Union High School—Mr. H. A. Owen.  
 Roseville Union High School—Mr. W. H. Masters.  
 San Andreas: Calaveras Union High School—Mr. James Keith.  
 Sanger Union High School—Mr. A. B. Martin.  
 San Jacinto High School—Mr. C. C. Smith.  
 South San Francisco High School—Mr. G. E. Britton.  
 Sutter Creek Union High School—Mr. P. B. Westerman.  
 Taft: Conley District High School—Miss J. C. Michaels.  
 Thermal: Coachella Valley Union High School—Mr. James Ferguson.  
 Truckee: Meadow Lake Union High School—Mr. Paul Giffen.  
 Weaverville: Trinity County High School—Mr. R. W. Everett.  
 Woodlake Union High School—Mr. J. C. Walker.

Total Public Schools (Division B)—49.

*Private Schools*

Belmont: Belmont School—Mr. W. T. Reid.  
 Berkeley: Berkeley Preparatory School—Mr. J. H. White.  
 Berkeley: St. Joseph's Presentation Convent—Sister Mary Reginald.  
 Lordsburg: Academy of Lordsburg College—Mr. S. J. Miller.  
 Los Angeles: Cathedral High School for Girls—Sister M. Gabriel.  
 Los Angeles: Cumnock Academy—Mrs. E. W. Brooks.  
 Los Angeles: Saint Mary's Academy—Sister M. Victoria.  
 Los Gatos: Montesuma Mountain Ranch School—Mr. E. A. Rogers.  
 Oakland: Our Lady of Lourdes Academy—Sister M. E. Burscough.  
 Palo Alto: Manzanita Hall—Mr. W. A. Shedd.  
 Pasadena: Orton School—Miss A. B. Orton.  
 San Francisco: Immaculate Conception High School—Sister M. Dominica.  
 San Francisco: Miss Murison's School—Miss E. L. Murison.  
 San Francisco: Potter School—Mr. G. S. Potter.  
 San Francisco: Sacred Heart College—Brother U. Gregory.  
 San Francisco: St. Brigid's School—Sister Margaret Mary.  
 San Francisco: St. Rose Academy—Sister M. Rosalia.  
 San Francisco: Star of the Sea School—Sister Germaine.  
 San Francisco: Trinity School—Mr. Leon Roger.  
 San Francisco: University School—Mr. W. C. Nolan and Mr. G. H. Stokes.  
 San Jose: The Washburn School—Miss M. Meyrick.  
 San Luis Obispo: California Polytechnic School—Mr. R. W. Ryder.  
 San Rafael: Hitchcock Military Academy—Mr. R. W. Sherer.  
 Santa Rosa: Ursuline College—Sister Angela.  
 South Pasadena: Huntington Hall—Miss Florence Hansel.  
 Stockton: St. Agnes Academy—Sister M. Reginald.  
 West Alhambra: Ramona Convent of the Holy Names—Sister M. Marcella.

Total Private Schools (Division B)—27.

Total Public and Private Schools (Division B)—76.

Grand Total: Public and Private Schools (Divisions A and B)—301.

### 3. ADMISSION FROM CALIFORNIA STATE NORMAL SCHOOLS

By a provision of the Academic Senate, the state normal schools of California may recommend their graduates for admission without examination; but students who come from the normal schools without credit for the required matriculation work in foreign languages will be conditioned in this requirement. Any courses (e.g., French or German) taken in the University for the purpose of satisfying requirements for matriculation are credited only for matriculation, and not as a part of the 124 or more units required for the degree. Graduates of the California state normal schools who are also graduates of accredited high schools may, under certain conditions, receive advanced credit in the University amounting to forty-eight units of the sixty-four units required for the junior certificate. The credit so granted may, at the discretion of any University department concerned, be accepted as satisfying prerequisites for advanced or major work. A form of recommendation for admission to the University from the state normal schools will be furnished by the Recorder of the Faculties upon application.

### 4. ADMISSION ON TEACHERS' DIPLOMAS

Holders of Teachers' Life Diplomas or of State Educational Diplomas of this state, or holders of similar diplomas recognized by the State Board of Education of California, may be admitted provisionally to the University in the academic departments, with the privilege of satisfying matriculation requirements by examination or by work in the University.

### 5. ADMISSION FROM SECONDARY SCHOOLS OUTSIDE OF CALIFORNIA

Certificates from a high school, or academy, or preparatory department of a college in the State of California are not accepted in lieu of entrance examination, unless the school in question has been duly examined and accredited by the University, in accordance with the order of the Regents of the University governing accrediting.

Certificates from a high school or other secondary school in another state or country may be accepted, provided the school has been accredited by some college or university of good standing, by the New England College Entrance Certificate Board, or by the North Central Association of Colleges and Secondary Schools. Certificates are accepted only for the *graduates* of approved four-year secondary schools. Evidence of thoroughly satisfactory scholarship is required. The Committee on Credentials, acting on behalf of the Faculties, is empowered to reject credentials, in whole or in part, and to require the matriculation examinations in any or all subjects.



To avoid delay the applicant may forward an unofficial copy of his statement to the University, for provisional consideration, retaining the original for the purpose of procuring the necessary endorsement.

Notification of action taken by the Committee is in every case sent by mail to the applicant.

*Importance of Early Application.*—Official credentials should always be sent to the University in ample time for action and notification *before* the entrance examinations; these are held in January and in August of each year. For details, consult the Registration Circular, which may be obtained from the Recorder. Applicants whose papers are received too late for full consideration before the examinations may be seriously inconvenienced in beginning their work and, in addition, will be subject to a fee for late registration.

#### 6. ADMISSION TO ADVANCED STANDING IN UNDERGRADUATE COURSES

Applicants may be given advanced standing in the University of California on the basis of certificates from other colleges and universities, upon the approval of the certificates by the proper committee. A form of statement of university work, which may be used for such certificates, will be furnished on application to the Recorder of the Faculties. It may be filled out by the applicant himself, but should be duly certified by the proper officer of the institution in which the work was done. There should also be submitted some credential showing *in detail* the basis upon which the applicant was matriculated in the institution from which he comes; if matriculation took place by certificate, the form provided for a statement of preparatory work should be used. These documents should be filed with the Recorder of the Faculties, in order that they may be placed before the Committee on Credentials, for an estimate of their value in terms of the requirements of the University of California. The Committee, acting on behalf of the faculties, is empowered to reject the certificates, in whole or in part, and to require examination in any or all of the subjects offered.

Credit for subject A (English expression) and for subject B (ability to read a foreign language) is not given upon certificate. Examinations at the University are required for credit in these subjects.

#### 7. ADMISSION FROM SCHOOLS AND COLLEGES IN THE ORIENT

Graduates of approved schools and colleges in China, Japan, India and other Oriental countries are allowed to substitute a satisfactory course in the history of their own country for the history requirement (subjects 5, 10, 13a, or 13b), and also to substitute satisfactory courses in Oriental law, language and literature for the matriculation require-

ments in foreign languages (subjects 6, 7, 8, 9, 15) and advanced English (subject 14). Such concessions will be granted only to those who furnish properly endorsed official records of their work in other countries and whose work in other departments of study satisfies the requirements for admission. This work will not be accepted as a substitute for any foreign language specifically required by the curriculum in which the student seeks the bachelor's degree; Latin, for example, is specifically required for the junior certificate, according to Plan A, College of Letters and Science.

---

#### ADMISSION TO GRADUATE COURSES

Persons holding the degree of Bachelor of Arts, Letters, Philosophy, or Science from a reputable institution authorized by law to confer these degrees, or holding any other degree or certificate which the Academic Senate may accept as equivalent, may be admitted as graduate students in the University of California upon presenting proper credentials.

The grade of work to which graduate students are assigned and their standing as candidates for a degree will depend upon the extent and character of their undergraduate courses. If in any department the preliminary training of applicants has not been sufficient to qualify them for strictly graduate work, they may be admitted to such undergraduate courses as may be suited to their needs. The status of all graduate students will lapse at the close of each academic year, unless they have been admitted to candidacy for degrees; but on application it may be renewed at the discretion of the Graduate Council. For the conditions under which the advanced degrees may be obtained, see the latest Announcement of the Graduate Division, to be obtained on application to the Recorder of the Faculties.

---

#### RESIDENCE

Residence at the University is residence in its vicinity and attendance upon such of its exercises as are appointed for the student. In this sense, residence at Mount Hamilton is residence at the University for such students as have been appointed to work at the Lick Observatory, residence at La Jolla is residence at the University for such students as have been appointed to work in the Marine Biological Laboratory, and residence at Davis is residence for such students as have been appointed to work at the University Farm. In the graduate school, residence at any place, or in any field, which may be designated by the proper faculty as suitable for the work of a candidate for one of the advanced degrees, is regarded as residence at the University.

## COLLEGE OF LETTERS AND SCIENCE

## LOWER DIVISION

The work of the lower division comprises the studies of the freshman and sophomore years. The junior certificate marks the transition from the lower division to the upper division of the undergraduate course.

All candidates for the bachelor's degree in the College of Letters and Science must qualify for the junior certificate before proceeding to the upper division. Concerning upper division requirements, see Upper Division, in later pages of this circular.

*Amount of credit required.*—For the junior certificate, 64 units of university work are required, in addition to subjects A and B, and in addition to the 45 units required for matriculation, making a total of 109 units. A surplus matriculation credit does not reduce the amount of work (normally 64) required in the lower division, except under conditions specified in the section pertaining to surplus matriculation credit as given on page 70. These 64 units of lower division credit may normally be completed in two years, but students are required to remain in the lower division only until they are able to complete the requirements for the junior certificate. Students in the lower division may, with the approval of the study-lists committee, take as high as 19 units of university work per half-year, in addition to the prescribed courses in military science, physical education, and hygiene.

But the *number of units* which the student must average term by term, in order to complete in two years the work of the lower division, is sixteen. Regular students, then, ought not to take much less than sixteen units, and beginners should not attempt more without official advice.

*Honorable mention with the junior certificate; candidacy for honors.*—Honorable mention with the junior certificate is awarded to students who have attained at least second grade in forty-eight (48) units of their freshman and sophomore courses. The list of students who receive honorable mention with the junior certificate is published, and this list is sent to members of the faculty of Letters and Science, and to prospective students of the junior class. A student whose name appears upon this list, unless he prefer not to enter for honors, should at the beginning of his junior year report immediately to the department of his major work. The department will advise him in the choice of his studies and will specifically approve all courses taken in the department. Concerning procedure in candidacy for honors, see Upper Division, in later pages of this circular.

*Subject A*, oral and written expression in English, is a requirement for junior standing in all colleges and courses at Berkeley, including the colleges of engineering and chemistry. It applies to students who graduate by the junior certificate plan as well as to those who graduate without the junior certificate. The requirement is additional to the "courses" or "units", in English and other subjects, tabulated below, and can be satisfied only by passing an examination. This examination is given each half-year shortly after the opening of the session. Every intrant admitted to regular first-year or second-year standing is required to take an examination in subject A during his first half-year. Failure to take the examination in subject A at the time required, or failure to pass, has the same effect upon the student's standing as a failure to pass in an ordinary course.

*Subject B.*—(a) For the Junior Certificate. The junior certificate will be granted only to such candidates as shall demonstrate their ability to read intelligently a piece of ordinary prose in French, German, Greek, Italian, Latin, or Spanish, and to render it into good English. Students should concentrate on one foreign language (the one needed in future work) and should make use of this language as soon as possible. This requirement, like subject A, is not to be satisfied by the mere completion of courses or units; it may be satisfied only by passing an examination set by a university committee. This requirement is known as "Subject B." Students who have entered the University from institutions in a foreign country, in which the language of instruction is other than English, may, at the discretion of the Committee on Credentials, be permitted to substitute for the regular examination in Subject B an examination which shall consist of translation into the language in which their preparatory training has been received of a passage of English or a passage of French, German, Greek, Italian, Latin, or Spanish.

(b) For Honors. Each department is authorized to require of students who wish to be candidates for honors in that department, in addition to the prerequisites for specific courses, a reading knowledge of one of the foreign languages mentioned in the preceding paragraph. Individual instructors may make such further language requirements for specific courses as they deem wise, but such requirements shall be explicitly stated in the Announcement of Courses.

All *matriculation deficiencies* must be removed before the student leaves the lower division. Students who do not take military science, physical education, or hygiene must make up the deficiency in hours in other departments of study.

The requirements for the junior certificate in the College of Letters and Science may be summarized as follows:

**SUMMARY OF REQUIREMENTS FOR THE JUNIOR CERTIFICATE, INCLUDING  
REQUIREMENTS FOR MATRICULATION**

*Units of Credit.*—In this table the normal amount of work represented both by preparatory or high school subjects, and by the University courses, is specified quantitatively. In the University a unit signifies one hour per week of recitation or lecture, with preparation therefor, during one half-year. A course of study taken in the preparatory school for one year at five periods per week is valued at 3 units. Work in laboratory or field, or other work not requiring out-of-class preparation, is estimated at a lower rate than recitations and lectures.

[The requirements are stated in "units;" see above for explanation.]

Subjects	UNITS FOR MATRICULATION	Required
English (1) .....		6
Plane Geometry (2) .....		3
Elementary Algebra (3) .....		3
History (5, 10, 13a, 13b) .....		3
Greek, Latin, German, French, Spanish (6, 7, 8, 9, 15).....		6 <sup>s</sup>
Advanced Science (11, 12b, etc.) .....		3
Any one, or any combination, of the following:		
Additional Foreign Language <sup>s</sup> , Intermediate or Advanced Mathematics (4, 12a), Additional Advanced Science .....		6
Electives (subjects 4-17) .....		6
Any electives .....		9
"Advanced" subjects .....		[12]
Total .....		45 <sup>1</sup>

**UNITS FOR JUNIOR CERTIFICATE, INCLUDING MATRICULATION**

(Matriculation 45 plus Lower Division 64 = 109)

Subjects	Required College of Letters and Science	
	Plan A	Plan B
English .....	6	12
Mathematics .....	6	12 <sup>s</sup>
Mathematics or Logic.....	6 <sup>s</sup>	....
Greek, Latin .....	12	....
Greek, Latin, German, French, Spanish, Italian.....	12 <sup>s</sup>	12 <sup>s</sup>
Natural Science (must include Laboratory Science, 6 units) .....	12 <sup>4</sup>	18 <sup>4</sup>
History, Economics, Political Science.....	9	9
Military Science .....	6	6
Physical Education .....	2	2
Hygiene .....	2	2
Elective .....	86	86
Subject A, Subject B (required without unit credit) .....	....	....
Total .....	109	109

## FOOTNOTES TO TABLE

1. *Matriculation.*—The candidate for admission must have chosen his 45 units in such a way as to have a total of 12 units of subjects designated as “advanced,” including one of the following sciences, if taken with laboratory work, in the third or fourth year of the high school course: physics, chemistry, botany, zoology, physiology. Students who enter the University without the required work in science may remove this deficiency only by taking additional work in science after admission; a matriculation deficiency in chemistry or physics can be made up in the University only during the summer session. The preparatory subjects listed as “advanced” are 4, 5, 7, 9, 11, 12 (excluding the sciences of the first and second years of the high school), 13b, 14, 15a<sup>3</sup>, 15a<sup>4</sup>, 15b<sup>3</sup>, 15b<sup>4</sup>, 15c<sup>3</sup>, 15c<sup>4</sup>.

Of foreign language (Greek, Latin, German, etc.) the student must have credit for 12 units, unless he has credit also for intermediate or advanced mathematics or surplus advanced science, in which case not to exceed 6 units of such work in science or mathematics or a combination of the two may be substituted for an equal amount of foreign language.

Applicants who expect to take up courses of study presupposing a knowledge of the elements of physics or chemistry, with laboratory practice (matriculation subjects 11, 12b), should take this work either during the high school course or during the university summer sessions. No equivalent for this work is offered during the regular sessions of the University. Applicants for courses of study requiring matriculation Latin, subject 6, should notice that the University does not offer instruction in this subject in any session. See Recommendations for the Various Curricula, under Admission Requirements, above.

2. *Plan A.*—The requirements in mathematics and logic are as follows: A total of 12 units in mathematics, or in mathematics and logic, with the following restrictions: there must be a minimum of 6 units of mathematics for matriculation (subjects 2, 3); those who enter the University with but 6 units of mathematics must complete the required 12 units by taking either 6 units in mathematics alone, or 6 units in logic alone; those who bring more than 6 and less than 12 units of mathematics for matriculation may complete the required 12 units either in mathematics, or in logic, or in a combination of the two. For students who in any half-year complete a five-unit lower division course in mathematics, the prescription in mathematics is reduced by one (1) unit for each five-unit course so taken.

3. *Plan B.*—Students in this group must have credit for 12 units in mathematics, without alternative for any part thereof. For students who in any half-year complete a five-unit lower division course in mathematics, the prescription in mathematics is reduced by one (1) unit for each five-unit course so taken.

4. *Prescribed Natural Science.*—The prescribed work in science taken in college must be chosen from the following fundamental courses. Laboratory courses are indicated by an asterisk (\*) following the number of the course:

Agricultural Chemistry 1, 2\*.  
Astronomy 1, 1-2\*, 2A-2B\*, 5, 11.  
Botany 1A-1B, 2\*, 3\*.  
Chemistry 1A-1B\*, 5\* or 6A\*-6B\*, 8A-8B, 9\*.  
Entomology 1, 3 or 4\*.  
Genetics 1\*.  
Geography 10\*.  
Geology 1A, 1B.  
Mineralogy 1A\*, 1B\*, 2A, 2B\*.  
Palaeontology 1, 2.  
Pathology 1\* (Bacteriology).  
Physics 1A-1B\*, 1AB\*, 2A-2B, 2C-2D\*, 3A-3B\*.  
Physiology 1\*, 2\*.  
Soils 2.  
Zoology 1A\*, 1B\*, 10.

Students in the College of Letters and Science who pursue the regular technical *Course in Architecture* may substitute Drawing 3A, 3B, 3C, 6 units, for an equivalent number of units of science in fulfillment of junior certificate requirements.

All references in these notes to specific courses of instruction apply to the courses as designated in the Announcement of Courses for 1917-18.

5. *Prescribed Foreign Language.*—For students who in any half-year complete a five-unit lower division course in foreign language, the prescription in foreign language is reduced by one (1) unit for each five-unit course so taken.

*Curricula in Public Health.*—There are three curricula (see above, under Admission Requirements; see also the curricula in detail, published elsewhere in this bulletin). It will be necessary for candidates for the degree of Graduate in Public Health to select their studies in the lower division (freshman-sophomore years) in such a way as to satisfy the prerequisites for the curriculum selected.

*Pre-Medical Requirements.*—For statement of matriculation requirements in the Medical School, see under Medical School in later pages of this circular.

*Students in the Technical Course in Architecture* must complete all the requirements for the junior certificate in the College of Letters and Science, including among the prescribed or the elective studies: mathematics, 24 units; physics, 9 units; drawing, 16 units; civil engineering, 2 units; architecture, 9 units. The work in mathematics, physics, civil engineering and six units of the work in drawing is identical with the work in these subjects in the colleges of engineering.

*Home Economics.*—Students who intend to do advanced work in Household Art should have completed the requirements for the junior certificate in the College of Letters and Science, including matriculation subjects 18c and 18e or their equivalents, and botany and chemistry, Household Art 122, Graphic Art 6, History 1A-1B, Economics 1A-1B. Courses recommended: Chemistry 1A-1B, Graphic Art 7 and 14A-14B, Architecture 5, Philosophy 36A-36B, Political Science 1A, 1B, Drawing 9. Students who intend to specialize in house furnishing should take in addition Drawing CD; Drawing 3A, 3B, and 3C are recommended. Students who intend to specialize in scientific study of textiles should take Chemistry 1A-1B.

To enter on advanced work in Household Science the student should have completed the requirements for the junior certificate in the College of Letters and Science, including matriculation subject 18d, Chemistry 1A-1B, 5, 8A-8B; Economics 1A-1B. Political Science 1A, 1B, Physiology 1, and Bacteriology 1 are strongly recommended.

A suggested schedule of lower division work for either branch may be obtained at the office of the Recorder of the Faculties.

#### UPPER DIVISION

Students will not be registered in the upper division until all matriculation and lower division requirements have been completed.

The minimum requirements for graduation which must be satisfied by all students during their residence in the upper division are as follows:

1. Except as provided below, the work of the upper division must be extended over a period of not less than two years' residence.† Two summer sessions are equivalent in point of residence to one half-year. Study-list limits per half-year in the upper division, 12-16 units; summer session, 4-6 units.

† This rule may, in exceptional cases, be set aside; but only on condition that the student devote more than four years to the completion of the undergraduate curriculum. The requirement of two years of residence in the upper division does not apply to students who receive honors at graduation.



2. The amount of work done by each student must be sufficient, when added to that already completed by him in the lower division, to amount to 124 units.†

3. At least 36 units of work must be done in major courses (i.e., in courses designated by the numbers 100-199), in any of the following departments:

Agriculture	*Jurisprudence
Anatomy	Latin
Anthropology	Mathematics
Architecture	Mechanical and Electrical Engineering
Astronomy	Mining and Metallurgy
Biochemistry and Pharmacology	Music
Botany	Oriental Languages
Celtic	Palaeontology
Chemistry	Pathology and Bacteriology
Civil Engineering	Philosophy
Drawing and Art	Physical Education for Men
Economics	Physical Education for Women
Education	Physics
English	Physiology
Geography	Political Science
Geology and Mineralogy	Public Speaking
German	Romanic Languages
Greek	Sanskrit
History	Semitic Languages
Home Economics	Slavic Languages
Hygiene	Zoology
Irrigation	

4. At least 12 of the 36 units required under (3) must be taken in the major courses of a single department, exclusive of the departments of Agriculture, Mechanical Engineering, Mining, Civil Engineering, and Irrigation.

The requirement of 12 units of major courses in one department may be satisfied by completing such portions of the following curricula as fall within the undergraduate division of the College of Letters and Science:

Home Economics: either A (household science) or B (household art).

Public Health: first two years of curriculum A.

Architecture: first two years of professional course.

\* Not more than twenty-six units of work listed in the professional curriculum in law shall be credited toward a bachelor's degree. The student may enroll for as much more as other regulations permit, but the excess over twenty-six will not be included in his schedule for graduation.

† Except that students in the School of Jurisprudence may offer the first year of the professional course, 26 units, in lieu of all senior requirements in the College of Letters and Science, thus qualifying for A. B. on a schedule of 120 units.

Jurisprudence: first year of the professional course.\*

Medicine: first year of the professional course.\*

All requirements for graduation are included under these four heads, but it should be observed:

1. That students who after graduation proceed to the master's degree may find that in certain departments 12 units of major work in the upper division are not sufficient to enable them to secure the master's degree in one year.

2. That candidates for honors at graduation may be required by their major department to take as much as 24 units, instead of 12, in major courses of that department.

*Candidacy for Honors.*—Candidates for honors are those students of the upper division who are recognized by the faculty of Letters and Science as having given evidence of superior scholarship and who are therefore granted special liberty and opportunity, and are given special assistance by the departments in which they do their principal work. The regulations governing candidacy for honors are as follows:

Honorable mention with the junior certificate qualifies a student to become immediately a candidate for honors in the upper division. The list of students who receive honorable mention with the junior certificate is published, and the list is sent to members of the faculty of Letters and Science, and to prospective students of the junior class.

A student whose name appears upon this list, unless he prefer not to enter for honors, should, at the beginning of his junior year, and at the beginning of each half-year thereafter, so long as he remains in the honors group, report immediately to the department of his major work. The department will advise him in the choice of his studies and will specifically approve all courses taken in the department of the student's major.

With the approval of the Committee on Candidates for Honors, a department may allow a student who has received the junior certificate without honorable mention, but whose work in the department has been of high grade, to enter for honors.

After the first half of the junior year the Committee on Candidates for Honors will, upon the recommendation of the several departments, decide what students shall remain in the honors group and what students shall be promoted to the honors group. In determining these matters, the committee will consider not only the student's work in the department of his major but his entire record.

The several departments have full freedom in determining the most

---

\* But during the third or junior year in the College of Letters and Science the student will be expected to complete major courses to the amount, normally, of 18 units.

efficacious methods for the training of candidates for honors; but no student will be required to take more than 24 units of major work in the department of his major. Departments may offer special honors courses in reading and research, with credit to be determined by the instructors in charge, according to the performance of the individual student, subject to such general restrictions as may be imposed by the department and by the Committee on Courses of Instruction. The work of the student in such an honors course may consist of additional work in connection with regular courses of instruction, or may be independent of such courses.

At the beginning of each half-year the University publishes a list of all candidates for honors of at least one half-year's standing, together with a statement of their major departments. The names of such candidates are specially designated in the Catalogue of Officers and Students.

Before Commencement, a department satisfies itself by means of a general final examination, or in such other manner as it may deem best, of the fitness of each candidate for honors at graduation. Candidates who, in the judgment of their departments, display marked superiority in their major subject, receive the special distinction of highest honors. The list of students upon whom honors and highest honors are conferred, with mention of their major department, appears in the annual Commencement programme.

Students who satisfy the requirements for graduation with honors are subject to all regulations governing students in the upper division excepting the requirement of two years of residence.

**COLLEGE OF COMMERCE****UNDERGRADUATE CURRICULUM**

The course leads to the degree of Bachelor of Science and is mainly devoted to elementary and technical studies as a broad preparation for business life. While some specialization is provided for in the senior year, those who wish to prepare for some particular commercial career are advised to extend their course beyond the usual four years. Courses covering five years have been outlined as a preparation for the work of the Certified Public Accountant, of the Actuary, for the consular service, and for railroading. These are described in the special Circular of Information of the College of Commerce. Graduation from this college, requires the completion of 124 units of college credit, of which 64 units constitutes the amount required in the University for the junior certificate.

The requirements in units for the junior certificate, including the forty-five units for matriculation, are as follows:

English .....	12 units
English expression, Subject A, required without unit credit.	
Foreign languages .....	18
Foreign language, Subject B (Greek, Latin, German, French, Spanish, or Italian) required without unit credit. See College of Letters and Science, Lower Division.	
History or Political Science .....	15
Geography (Physical and Commercial) .....	6
Other science .....	9
Mathematics—matriculation subjects 2 and 3, and college courses E (or its equivalent) and 2	14
Economics 1 .....	6
Military Science, Physical Education, Hygiene .....	10
Other subjects .....	19
<hr/>	
Total .....	109 units

Concerning the following matters, the regulations of the College of Commerce are identical with those of the College of Letters and Science, as set forth in earlier pages of this circular: method of computing units of credit; surplus matriculation credit; scope of examination tests in subjects A and B; courses which may be credited in satisfaction of degree

requirements in natural science. For students who in any half-year complete a five-unit lower division course in foreign language, the prescription in foreign language is reduced by one (1) unit for each five-unit course so taken.

Honorable mention with the junior certificate qualifies a student to become a candidate for honors in the upper division. The list of students who receive honorable mention with the junior certificate is published, and is sent to members of the faculty and to prospective students of the junior class. A student whose name appears upon this list, unless he prefer not to enter for honors, should, at the beginning of his junior year, and at the beginning of each half-year thereafter, so long as he remains in the honors group, report immediately to the secretary of the department of economics, who will advise him in the choice of his studies and will specifically approve all courses taken in the department.

At least two years of residence are required after receiving the junior certificate. This rule may, in exceptional cases, be set aside; but only on condition that the student devote more than four years to the completion of the undergraduate curriculum.

The requirements for graduation, in addition to those for the junior certificate, are:

Technical subjects .....	32 units
Jurisprudence .....	12
Electives .....	16
<b>Total .....</b>	<b>60 units</b>

The technical subjects are distributed as follows:

(a) Eleven units specifically required of all students, namely:

Statistics (Economics 140).....	3
Accounting (Economics 14).....	3
Economic History (Economics 110).....	3
Trade Journals (Economics 127A-127B).....	2

(b) Twelve units, covering at least four different subjects in applied economics, other than the above, such as money, banking, insurance, transportation, tariff, finance, labor problems, business organization, etc.

(c) Nine units of advanced work in some one of the subjects begun under provisions (a) and (b) above.

Where the arrangement of courses is such as to make it possible, the additional specific requirements for graduation (in excess of those required for the junior certificate) may be satisfied by work done before taking the junior certificate, thus increasing the opportunity for specialized elective work in the upper division.

COLLEGE OF AGRICULTURE<sup>1</sup>*Matriculation Requirement—Group III*

The College of Agriculture offers a series of subjects which, taken collectively, embrace the whole theory of agriculture and the technique of agricultural practice and investigation. The fundamental studies in English, mathematics, foreign languages, history or economics, and natural sciences, which were not completed in the high school, also such advanced work in these and other branches as the student elects, are taken in other departments of the University. At the same time students in other colleges may elect such subjects in the agricultural department as they are qualified to pursue.

The requirements for the degree of Bachelor of Science in the College of Agriculture are four years of residence and 130 units of study. Ordinarily 72 units will be completed during the freshman and sophomore years, 6 units during the six weeks summer practice course, and 52 units during the junior and senior years.

High school physics is a prerequisite for Physics 2A in the University. Students in the College of Agriculture without credit for matriculation physics must plan to take the equivalent course in the summer session.

The following programme illustrates the order in which the first two years' work may be taken:

## FRESHMAN YEAR

<i>First Half-year</i>	Units	<i>Second Half-year</i>	Units
Bot. 2, General Botany .....	3	Bot. 3, General Botany .....	3
Chem. 1A, Inorganic and Qual.		Chem. 1B, Inorganic and Qual.	
Analysis .....	5	Analysis .....	5
Hyg. 1, General Hygiene .....	2	†Drawing CD, Mechanical .....	2
†Math. C, Trigonometry .....	3	Mil. 2A, Mil. Art, Practical.....	$\frac{1}{2}$
Mil. 1A, Mil. Art, Practical.....	$\frac{1}{2}$	Mil. 2B, Mil. Art, Theoretical.....	1
Mil. 1B, Mil. Art, Theoretical.....	1	Phys. Ed. 1B, Gymnasium .....	$\frac{1}{2}$
Phys. Ed. 1A, Gymnasium .....	$\frac{1}{2}$	Path. 1, Bacteriology .....	4
Optional .....	2	Optional .....	1
	17		17

<sup>1</sup> The statements in pp. 122–125 refer to curricula in the College of Agriculture other than that in Forest Utilization. For curriculum in Forest Utilization see p. 125.

† Students with matriculation credit in these subjects need not register for them.

## SOPHOMORE YEAR

<i>First Half-year</i>	Units	<i>Second Half-year</i>	Units
Agr. Chem. 1 and 2, Chemistry of Agriculture .....	5	*C. E. 1E, Surveying Theory and Field Work .....	8
*C. E. 1E, Surveying Theory and Field Work .....	8	Genetics 1, Principles of Breeding Plants and Animals .....	4
Geology 1A, Gen. Geology .....	8	Landscape Gard. 1, Plant Propagation .....	4
Mil. 1A, Mil. Art, Practical .....	$\frac{1}{2}$	Mil. 2A, Mil. Art, Practical .....	$\frac{1}{2}$
Mil. 1B, Mil. Art, theoretical .....	1	Mil. 2B, Mil. Art, Theoretical .....	1
Phys. Ed. 1C, Gymnasium .....	$\frac{1}{2}$	Phys. Ed. 1D, Gymnasium .....	$\frac{1}{2}$
Zoology 1A, Gen. Zoology .....	4	Soil Tech. 1, Origin, etc. ....	4
*Optional .....	2 or 5	*Optional .....	2 or 5
	<hr/> 19		<hr/> 19

(1) Including matriculation units, all students must complete as soon as possible, and before graduation, English, 12 units, and pass an examination in Subject A; mathematics, including trigonometry, 12 units; foreign language, 12 units, and pass an examination in Subject B; history or economics, 9 units; mechanical drawing and surveying. If the student enters with a minimum matriculation requirement of 6 units in English, 6 in mathematics, 6 in foreign language, and 3 in history, he must complete in the University 6 units in English, 6 in mathematics, 6 in foreign language, 3 in economics, and 3 additional in economics or history. These subjects he will ordinarily take during his freshman and sophomore years. For students who in any half-year complete a five-unit lower division course in mathematics, the prescription in mathematics is reduced by one (1) unit for each five-unit course so taken. For students who in any half-year complete a five-unit lower division course in foreign language, the prescription in foreign language is reduced by one (1) unit for each five-unit course so taken.

(2) Summer class in special work connected with proposed major subject must be taken before beginning the junior year. This course is six weeks in length. Work is carried on as far as possible, just as in actual practice; 6 units credit. The courses usually begin immediately following Commencement. Prerequisite: completion of two years of study in a university or college course in agriculture. Women may offer in lieu of the summer practice six units of approved work in the summer session.

(3) Courses of instruction should be chosen primarily with reference to the major subjects. Beginning with his sophomore year, the student will indicate on his study-list card, each half-year, the number (as given

\* C. E. 1E may be taken either half-year, hence optional units vary depending on half-year this subject is taken.

below) of the major subject or subjects which he proposes to study. For a clear understanding of what studies the major subjects include, the student should consult the courses of study outlined for the various major subjects in the Prospectus of the College of Agriculture and in the Announcement of Courses. The major subjects in agriculture and their respective specific requirements are as follows:

- |  |   |
|--|---|
| I. Agricultural Chemistry.               | Chemistry 6A-6B.  |
| II. Agricultural Education.              | Botany 116 and Economics 1A or 126.   |
| III. Agronomy.                           | Botany 116 and Economics 1A or 126.   |
| IV. Animal Husbandry.                    | Physiology 1.   |
| V. Citriculture.                         | Botany 116 and Economics 1A or 126.   |
| VI. Dairy Industry.                      | Physiology 1 or Chemistry 5.  |
| VII. Entomology.                         | Entomology 1, 2 and 3.  |
| VIII. Forestry.                          | C. E. 1A, 1B, 3; Botany 104A; five units of economics.                            |
| IX. Irrigation.                          | Physics 2A; Math. 1; and C. E. 1A, 1B; Soils 99 or C. E. 3.                       |
| X. Landscape Gardening and Floriculture. | (a) Botany 116; Drawing CD; Graphic Art A-B; (b) Economics 1A or 126; Botany 116. |
| XI. Nutrition.                           | Chemistry 5.  |
| XII. Parasitology.                       | Physiology 107; Hygiene 3; Entomology 1 and 4; Zoology 1A; Bacteriology 1.        |
| XIII. Plant Pathology.                   | Botany 105A.  |
| XIV. Pomology.                           | Botany 116 and Economics 1A or 126.   |
| XV. Poultry Husbandry.                   | Physiology 1.   |
| XVI. Soils and Fertilizers.              | Chemistry 5.  |
| XVII. Viticulture and Enology.           | (a) Botany 116 and Economics 1A or 126.<br>(b) Chemistry 5.                       |

(4) All students before graduation must complete the following:

- Bacteriology 1, one half-year.
- Botany 2 and 3, two half-years.
- Chemistry 1A, 1B, two half-years.
- Civil Engineering 1E, one half-year.
- †Drawing CD, one half-year.
- Geology 1A, one half-year.
- †Mathematics C, one half-year.
- Zoology 1A, one half-year.
- Agricultural Chemistry 1 and 2, one half-year.
- Genetics 1, one half-year.
- Landscape Gardening 1 (Plant Propagation), one half-year.
- Soil Technology 1, one half-year.

† These subjects may be offered for matriculation.



## JUNIOR AND SENIOR YEARS

Among the fifty-two units of work normally taken in the junior and senior years there must be thirty-six units in *major courses*, as follows:

Major subject .....	10
Thesis in the major subject.....	4
Courses correlated with major subject.....	10
Agriculture (any sub-departments).....	12

The work must be carried on under the direction of the head of the division in which the major subject is taken and all junior and senior study-lists must be approved by him before presentation for signature by the Dean or Secretary.

Thesis work will be arranged with an instructor in the major subject. The student will submit his plan of thesis work to the Dean of the College at the beginning of the senior year and upon approval by the Dean shall file his thesis card with the secretary of the department. For further procedure follow the rules governing theses as stated on a later page of this circular. One hundred and thirty units and four years of residence are required for graduation.

## CURRICULUM IN FOREST UTILIZATION

*Matriculation Requirement—Group II**Freshman Year*

Subject A .....	....
Math. 3A-3B, Diff. Calculus..	3 3
Phys. 1A-1B, General .....	3 3
C. E. 1A-1B, Surveying .....	3 3
Chem. 1A-1B .....	5 5
Military, 1A, 1B, 2A, 2B .....	1½ 1½
Hygiene 1 .....	2 ....
Phys. Ed. 1AB, Gym. ....	½ ½
C. E. 3 (S. S.), Surveying..	(3)
<hr/>	
(3)	
<hr/>	
18 16	

*Sophomore Year*

Math. 4A-4B, Int. Calculus....	3 3
Phys. 2C-2D, General .....	3 3
Draw. 3D, Descrip. Geom. ....	3 ....
Mech. 8A, Shop .....	2 ....
Mech. 1A, Steam Eng. ....	3 ....
Mech. 1B, Elec. Eng. ....	3
Econ. 14AB, Accounting .....	3 3
*Hyg. 6, Indus. Hygiene .....	2
For. 110, Protection .....	3
Military 3A, 3B, 4A, 4B .....	1½ 1½
Phys. Ed. 1CD, Gymnasium ..	½ ½

---

 19 19

\* Recommended, but not required for graduation; if not taken, approved electives to be substituted.

<i>Junior Year</i>			<i>Senior Year</i>		
Mech. 102AB, Eng. Mech. ....	3	3	For. 118, For. Improv. ....	3	3
C. E. 102, Ry. Surv. ....	3	....	For. 115, Logging ....	3	3
For. 101, Mensuration ....	3	....	*Juris. 18AB, Com. Law ....	2	2
Mech. 9A, Shop ....	2	....	*C. E. 116, Eng. Contracts ....	1	1
*Econ. 161, Cost Accounting..	2	....	For. 122, For. Admin. ....	4	4
*Econ. 121, Ind. Efficiency....	2	....	For. 120, For. Finance ....	5	5
*Econ. 120, Business Org. ....	2	....	For. 108, Timber Trees ....	3	....
For. 104, Silviculture ....	5	....	*Geology 1A ....	3	....
C. E. 108AB, Strength of			*For. 106, Artif. Reprod. ....	2	....
Materials ....	3	2	*C. E. 108c, Testing Lab. ....	2	....
For. 114, Wood Tech. ....	3	....	For. 112, For. Util. ....	3	....
Elective ....	3	....	Elective .....	3	....
Silviculture, Management,					
Logging, Mensuration (For.					
99, S. S.) .....	(6)				18 18

18 18

Study-lists of students in Forest Utilization must be approved by the Head of the Division of Forestry before presentation for signature by the Dean or Secretary.

### COLLEGES OF ENGINEERING

The curricula in the Colleges of Mechanics, Mining, Civil Engineering, and Chemistry lead to the degree of Bachelor of Science.

In the tabulations in the following pages the courses are designated by their numbers. For further description see the annual Announcement of Courses. The Roman numerals indicate the years of university residence. The numbers in the double column for each year show the credit value in units of the several courses.

### CURRICULUM IN MILITARY ENGINEERING

By action of the Academic Senate, taken April 23, 1917, provision has been made for a curriculum leading to the degree of B.S. in Military Engineering, to be organized along the lines of the engineering curricula and to include appropriate technical courses in the theory and design of military instruments and structures. Such additions to the faculty as are necessitated by this programme may be made at the discretion of the President of the University and of the Regents. The Executive Committee of the Engineering Council is empowered to administer this curriculum for the academic year 1917-18 and to approve the study-lists of students who wish to undertake this course.

For students in the Colleges of Engineering who wish to add this special work in military science to the regular course, permission is granted to remain as students in their respective colleges an additional half-year in the accomplishment of this work, at the end of which time a certificate of credit will be given.

\* Recommended, but not required for graduation; if not taken, approved electives to be substituted.



## COLLEGE OF MINING—UNDERGRADUATE CURRICULA

## Matriculation requirement, group II.

I.		III.		IV.	
Subject A.....	..	Mech. 102A-102B,	..	Mining 101A-101B	3 2
Math. 3A-3B.....	3 3	or	..	Geol. 102c.....	.. 3
Phys. 1A-1B.....	3 3	Phys. 105A-105B.	3 3	Thesis or Summer	..
Chem. 1A-1B.....	5 5	Mining 103.....	.. 3	Work.....	2 2
C. E. 1A-1B.....	3 3	Hygiene 8.....	.. 1		
Phys. Educ. 1A-1B	† †				
Mining 5.....	.. 2	MINING		MINING	
Hygiene 1.....	2 ..	Metall. 104A.....	3 ..	Mining 105.....	.. 3
Mil. 1A-2A.....	† †	Metall. 102.....	2 ..	Mining 107, 109..	2 2
Mil. 1B-2B.....	1 1	Mineral. 103.....	.. 2	Metall. 108A-106	2 2
C. E. 3A (s.s.)	(3)	Geol. 103A-B.....	3 ..	Metallurgy 110A..	2 ..
		C. E. 118B.....	.. 3	Mech. 103A or }	3 ..
		Draw. 105.....	.. 2	C. E. 110.....	.. 3
		Elect. Engineer-	..	Juris. 216.....	1 ..
		ing 100ABCD.....	4 3	Mining 111.....	3 3
	18 18	Geol. 102A-102B..	2 2		18 17
			17 19		
II.		METALLURGY		METALLURGY	
Math. 4A-4B.....	3 3	Metall. 104A-104B	3 2	Metall. 108A-108B	2 2
Phys. 2C-2D.....	3 3	Metall. 102.....	2 ..	Metall. 110A-110B	2 2
Mineral. 1A, 1B..	2 2	Chemistry 110.....	.. 3	Metall. 112, 116 ..	2 2
Mineral. 2A, 2B..	3	Geology 103AB.....	3 ..	Metallurgy 106.....	.. 2
Drawing 3D.....	3	Mech. 1A.....	3 ..	Mining 109.....	.. 2
Geol. 1A.....	3	Elect. Engineer-	..	Mech. 103A or }	3 ..
Phys. Educ. 1C-1D	† †	ing 100ABCD.....	4 3	C. E. 110.....	.. 3
Mil. 3A-4A.....	† †	Civil Eng. 118B..	3	Elective.....	3 2
Mil. 3B-4B.....	1 1		18 18		17 19
		ECONOMIC GEOLOGY		ECONOMIC GEOLOGY	
MINING		Geol. 102A-102B..	2 2	Geol. 102D, 116....	2 2
Metall. 2.....	3	Geol. 104A-104B..	3 2	Geol. 107.....	2
Min. 1A.....	3 ..	Geol. 103AB.....	3 ..	Geol. 209.....	.. 2
Mech. 1A.....	3 ..	Geol. 1B.....	.. 2	Miner. 107, 104 or	..
	19 19	Palaeon. 1, 2.....	3 ..	105.....	2 2
METALLURGY		Metall. 104A.....	3 ..	Metallurgy 108A..	2 ..
Chem. 6A, Met. 2..	3 3	Metal. 102.....	2 ..	Juris. 216.....	1 ..
Elective.....	2 ..	Mineral. 103.....	.. 2	Elective.....	5 3
	18 19	Chem. 110.....	.. 3		17 18
			19 18		
ECONOMIC GEOLOGY		PETROLEUM		PETROLEUM	
Chem. 6A-6B.....	3 3	ENGINEERING		ENGINEERING	
Elective.....	2 ..	Geol. 102A-102B..	2 2	Mining 115, 119..	2 2
	18 19	Geol. 103AB.....	3 ..	Mining 123.....	2 ..
PETROLEUM		Elect. Engineer-	..	Mining 125.....	1 ..
ENGINEERING		ing 100ABCD.....	4 3	Geol. 102D-116....	2 2
Chemistry 5.....	3 ..	Mech. 1A.....	3 ..	C. E. 108A.....	3 ..
Chemistry 8A-8B..	2 2	Geol. 1B.....	.. 2	Mech. 103A or }	3 ..
Chemistry 9.....	.. 2	Chemistry 110.....	.. 3	C. E. 110.....	.. 3
	18 20	Gas Eng. 118A-	..	Metallurgy 106.....	.. 2
		118B.....	1 1	Chem. 140B-141B ..	4
		Palaeont. 1.....	2 ..		18 17
			18 18		

**Matriculation requirement, group II.**

I.			II.			III.			IV.		
Subject A.....	-		Math. 4A-4B.....	3	3	Mech. 102A-102B.....	3	3	C. E. 107C-107D.....	3	3
Math. 3A-3B.....	3	3	Physics 2C-2D.....	3	3	or Phys. 105A-105B.....	3	3	C. E. 113.....	2	2
Physics 1A-1B.....	3	3	Draw. 3D.....	3	3	C. E. 108A-108B.....	3	2	C. E. 119 Thesis.....	2	2
Chem. 1A-1B.....	5	5	Astron. 3.....	1	1	C. E. 108C*.....	2	2	C. E. 108C*.....	2	2
C. E. 1A-1B.....	3	3	C. E. 8.....	2	2	Drew. 105.....	2	2	C. E. 114.....	3	3
Phys. Educ. 1A-1B.....	4	4	Phys. Educ. 1C-1D.....	4	4	C. E. 107A.....	3	3	Mech. 1A.....	3	3
Hygiene 1.....	2	2	Mil. 3A-4A.....	1	1	C. E. 110.....	3	3			
Mil. 1A-2A.....	1	1	Mil. 3B-4B.....	1	1	C. E. 102.....	3	1	RAILROAD		
Mil. 1B-2B.....	1	1	Geol. 1A.....	3	3	C. E. 108E.....	2	2	C. E. 104A-104B.....	3	3
C. E. 3 (S.S.).....	(3)					Met. 106**.....	1	1	Astron. 114.....	3	3
Elective.....	1		RAILROAD			C. E. 103 (S.S.).....	(3)		Elective.....	7	7
	18	17	Min'l. 1A-1B, or.....	4	2	C. E. 105.....	2	2		18	18
			Mech. 8A-8B, or.....	2	2	C. E. 102C.....	1	1	SANITARY		
			Mech. 9A-9B.....	3	6	Astron. 107.....	4	2	C. E. 123.....	3	3
			Elective.....	3	6	Elective.....	2	2	C. E. 109A.....	2	2
				19	19		18	18	C. E. 109B.....	1	1
			SANITARY						C. E. 111B.....	2	2
			Chem. 8A.....	2	2	SANITARY			C. E. 126.....	3	3
			C. E. 25.....	2	4	Zool. 109C.....	1	1	Mech. Eng. 103B.....	4	4
			Bacteriology 1.....	1	4	C. E. 106.....	2	2	Elective.....	18	18
			Elective.....	1	4	C. E. 111A.....	3	3			
				19	19	Chem. 5.....	1	2	IRRIGATION		
						Elective.....	2	2	Irrig. 102B.....	2	2
			IRRIGATION				18	18	Irrig. 101.....	3	3
			Min'l. 1A-1B, or.....	4	2	IRRIGATION			Irrig. 112.....	2	2
			Mech. 8A-8B, or.....	2	2	Irrig. 102A.....	2	2	Irrig. 104.....	3	3
			Mech. 9A-9B.....	3	6	Irrig. 103.....	4	3	Mech. Eng. 103B.....	2	2
			Soils 2.....	6	6	Elective.....	4	3	Elective.....	18	18
			Elective.....	19	19		18	18			

\* Sanitary and Irrigation students may elect one unit of C. E. 1080, taking the remaining units in Sanitary Laboratory or Irrigation Design respectively.

**† Any 4 units in this group may be elected**

<sup>20</sup> Economics 1A, 3 units, first half-year, or English 1C, 3 units, either half-year, may be taken as an alternative for Met. 106.

## COLLEGE OF CHEMISTRY.

**Matriculation.**—The requirement is Group II, including subject 15b\*.

*Electives.*—The total number of units required for graduation is 136. Of the elective units, 35 must be approved electives in chemistry or allied subjects; the remainder may be free electives. Study-lists must be submitted for approval to Professor O'Neill.

**German Requirement.**—If subject 15b<sup>1</sup> is not represented for matriculation, German AB must be taken in place of CD. Students who have credit for 15b<sup>2</sup> or for German AB may, if they prefer, omit German CD, provided they are able to demonstrate to the Department of Chemistry, through an examination, their ability to read scientific German.

*Requirement for Junior Standing.*—A student will not ordinarily be permitted to enter upon the third year of work unless the matriculation and the German requirements are completed.

*Honor Students.*—Students who in the first two years of their college work have received the grade of 1 or 2 in 48 units of accepted courses will receive honorable mention with junior standing. These students are entitled and urged to enter as candidates for honors. The Committee on Candidates for Honors of the College of Chemistry will determine what students shall remain in the honor-group and what students shall be promoted thereto. Candidates who, in the judgment of the Faculty, display marked superiority in scholarship, receive the special distinction of highest honors. The list of students upon whom honors, and highest honors, are conferred, with mention of their major department, appears in the annual Commencement programme. Further information for honor-students will be found in the Announcement of Courses.

I				II			
Subject A	.....	.....	.....	Math. 4A-4B	.....	3	3
Math. 3AB	.....	.....	6	Phys. 2C-2D	.....	3	3
Phys. 1A-1B	.....	8	8	Chem. 6A-6B	.....	3	3
Chem. 1A-1B	.....	5	5	Chem. 8A-8B	.....	2	2
German CD	.....	5	.....	Chem. 9, 100	.....	2	2
Mil. 1A, 2A	.....	$\frac{1}{2}$	$\frac{1}{2}$	Chem. 110	.....	.....	8
Mil. 1B, 2B	.....	1	1	Mil. 1A, 2A	.....	$\frac{1}{2}$	$\frac{1}{2}$
Phys. Educ. 1A-1B	.....	$\frac{1}{2}$	$\frac{1}{2}$	Mil. 1B, 2B	.....	1	1
Hygiene	.....	2	.....	Phys. Educ. 1C-1D	.....	$\frac{1}{2}$	$\frac{1}{2}$
		17	16	Elective	.....	2	.....
						17	18
III				IV			
Pass Grp. Hnr. Grp.				Electives			
Chem. 111	.....	4	.....	.....	.....	17	16
Chem. 114	.....	.....	3				
Chem. 116	.....	.....	3				
Chem. 120	.....	3	.....				
Chem. 122	.....	2	.....				
Electives	.....	12	14				
		18	17				

Candidates for honors at graduation are required to complete at least 4 units of Chemistry 180.

Course in Chemical Engineering: Students in the College of Chemistry who wish to specialize in Chemical Engineering must take all the prescribed courses in the College of Chemistry and will be expected to choose their electives in substantial accordance with the following schedule:

I		II	
Subject A .....	....	Math. 4A-4B .....	3 3
Math. 3AB .....	6	Phys. 2C-2D .....	3 3
Phys. 1A-1B .....	3 3	Chem. 6A-6B .....	3 3
Chem. 1A-1B .....	5 5	Chem. 110 .....	3
German CD .....	5	Mil. 3A, 4A .....	$\frac{1}{2}$ $\frac{1}{2}$
Mil. 1A, 2A .....	$\frac{1}{2}$ $\frac{1}{2}$	Mil. 3B, 4B .....	1 1
Mil. 1B, 2B .....	1 1	Phys. Educ. 1C, 1D .....	$\frac{1}{2}$ $\frac{1}{2}$
Phys. Educ. 1A-1B .....	$\frac{1}{2}$ $\frac{1}{2}$	<i>Elective Courses</i>	
Hygiene .....	2	Drawing 3D .....	3
<i>Elective Courses</i>		Mech. 6A .....	3
Mech. 8B .....	2	Mech. 1A .....	3
		Electives .....	0 2
	17 18		17 19

III					IV				
Pass Grp. Hnr. Grp.					<i>Elective Courses</i>				
Chem. 8A-8B .....	2	2	2	2	Chem. 145 .....	3	....		
Chem. 9, 100 .....	2	2	2	2	Chem. 140A-140B .....	2	2		
Chem. 111 .....	4	....	3	....	Chem. 141 .....	2	....		
Chem. 114 .....	....	....	3	....	Mech. 103A .....	3	....		
Chem. 116 .....	....	....	3	....	Mech. 105A-105B .....	3	3		
Chem. 120 .....	....	3	....	3	Mech. 107C-107D .....	1	1		
Chem. 122 .....	2	....	2	....	Elec. Eng. 100A-100B .....	3	2		
<i>Elective Courses</i>					Elec. Eng. 100C-100D .....	1	1		
Mech. 102A-102B or					Electives or Chem. 180 .....	0	4		
Phys. 105A-105B..	3	3	3	3					
C. E. 108A .....	3	....	3	....					
Electives .....	2	6	0	3					
	18	16	18	16					

## SUMMARY OF REQUIREMENTS IN "UNITS"

## FOR THE BACHELOR'S DEGREE

	College of Letters and Science, Commerce	College of Agriculture (except Forest Utilization)	College of Chemistry, incl. Chemical Engineering	Colleges of Mechanics, Mining, Civil Engineering, Forest Utilization
For Matriculation .....	45	45	45	45
In the Lower Division, regular session .....	64	72	68-71	72-74
In the Lower Division, summer session .....	0	6	0	3
Subject A .....	required	required	required	required
Subject B .....	required	required	not required	not required
Total for Junior Cer- tificate .....	<hr/> 109	<hr/> not given	<hr/> not given	<hr/> not given
In the Upper Division, normally:				
(a) Regular session ....	60	52	68-65	69-72
(b) Summer session, Colleges of Min- ing, Civil Engi- neering, Curric. in Forest Utili- zation only .....	0	0	0	2-6
Total for Bachelor's De- gree .....	<hr/> 169	<hr/> 175	<hr/> 181	<hr/> 192-198
Total normally completed in the University ex- clusive of matricula- tion work .....	124	130	136	147-153



## SCHOOL OF ARCHITECTURE

The requirements for admission to the technical course in architecture are the junior certificate in the College of Letters and Science and the following specific courses at the University. Students who expect to follow the technical course in architecture should present matriculation group II for admission. The student should, however, register in the College of Letters and Science and comply with the requirements for the junior certificate. If the course is to be completed in six years, the following prerequisites must be completed in the lower division; Mathematics 3A-3B, 4A-4B; Graphic Art 14A-14B; Drawing 3A, 3B, 3C; Physics 1A-1B; Civil Engineering 8; Architecture 5A-5B, 11, 12A-12B, 13A-13B.

NOTE.—Students who do not wish to follow the technical curriculum in architecture may choose architecture as a major subject in the College of Letters and Science.

<i>Third Year</i>			<i>First Graduate Year</i>		
	1st half-year Units	2nd half-year Units		1st half-year Units	2nd half-year Units
Architecture 101A-101B	3	3	Architecture 203A-203B	8	8
Architecture 5C-5D .....	1	1	Architecture 206E-206F	1	1
Architecture 105C-105D	1	1	Architecture 207A-207B	1	4
Architecture 106A-106B	1	1	Architecture 209A-209B	3	2
Architecture 12A-12B ..	1	1	Civil Engineering 1E.....	3	..
Architecture 13A .....	1	..	Civil Engineering 116..	..	1
Architecture 14A-14B ..	1	1	—	—	—
Drawing 105.....	..	2	16	16	16
Drawing 110.....	2	..			
Civil Engineering 117..	..	3			
Civil Engineering 118A- 118B .....	3	3			
Civil Engineering 127..	2	..			
—	—	—			
	16	16			
<i>Fourth Year</i>			<i>Second Graduate Year</i>		
Architecture 102A-102B	4	5	Architecture 204.....	15	..
Architecture 5E-5F .....	1	1	Architecture 216.....	..	15
Architecture 105E-105F	1	1	—	—	—
Architecture 106C-106D	1	1	15	15	15
Architecture 12A-12B ..	1	1			
Architecture 14A-14B ..	1	1			
Architecture 108A-108B	2	2			
Civil Engineering 107E- 107F .....	3	3			
Civil Engineering 108F ..	..	1			
Civil Engineering 115..	2	..			
—	—	—			
	16	16			

The foregoing curriculum leads to the Degree Bachelor of Arts at the end of the fourth year of undergraduate work, and to the degree of Graduate in Architecture at the end of the second graduate year.

The requirement for entrance to the School of Architecture (as distinguished from the Department of Architecture) is the A.B. degree with a major in Architecture or the equivalent of this. The degree of Graduate in Architecture is conferred upon students in the School of Architecture who shall have remained in residence at least one year after obtaining the A.B. degree and who shall have satisfactorily completed the following courses of study:

Architecture 5ABCDEF, 11, 12AB (six half-years), 13AB (three half-years), 14AB (four half-years), 101AB, 102AB, 105CDEF, 106ABCD, 108AB, 203AB, 206EF, 207AB, 209AB, 204, 216.

Civil Engineering 1E, 8, 107EF, 108F, 115, 116, 117, 118AB, 127.

Drawing 3ABC, 105, 110; Graphic Art 114AB.

To obtain the degree of Graduate in Architecture in the shortest possible time, students will find it necessary to anticipate the required studies as much as possible before obtaining the A.B. degree.

The division of the classes in Architectural Design is based upon a system of progressive values, instead of half-years, as follows:

Stage I—(Architecture 101A, Elementary Design) 3  
projets during the half-year,

First Grade .....	12 values
Second Grade .....	8
Third Grade .....	4
Fourth Grade .....	0

24 values required.

Esquisse-Esquisse (3 required each half-year out of  
8 programmes),

First Grade .....	4 values
Second Grade .....	2

24 values required.

Stage II—(Architecture 101B, Elementary Design) 3  
projets during the half-year,

First Grade .....	12 values
Second Grade .....	8
Third Grade .....	4
Fourth Grade .....	0

Esquisse-Esquisse (3 required each half-year out of  
8 programmes),

First Grade .....	4 values
Second Grade .....	2

24 values required.

**Stage III—(Architecture 102A–102B) 3 projets each half-year,**

First Grade .....	12 values
Second Grade .....	8
Third Grade .....	4
Fourth Grade .....	0

**Esquisse-Esquisse (3 required each half-year out of 8 programmes),**

First Grade .....	4 values
Second Grade .....	3
48 values required.	

**Stage IV—(Architecture 203A–203B, Planning and Composition) 3 projets each half-year,**

First Grade .....	12 values
Second Grade .....	8
Third Grade .....	4
Fourth Grade .....	0

**Esquisse-Esquisse (3 required each half-year out of 8 programmes),**

First Grade .....	4 values
Second Grade .....	2
48 values required.	

**Stage V—(Architecture 204, Advanced Design) 3 projets during the half-year,**

First Grade .....	12 values
Second Grade .....	8
Third Grade .....	4
Fourth Grade .....	0

**Esquisse-Esquisse (3 required each half-year out of 8 programmes),**

First Grade .....	4 values
Second Grade .....	2
24 values required.	

**Total, 168 values required.**

No student may count, toward his total values, more than 4 values on *Esquisse-Esquisse* each half-year. No excess values in a given stage may be applied for credit in a higher stage. In stages IV and V a medal may be granted for a specially fine projet but no additional value is attached thereto. Projets which are handed in late receive the grade next below their rank.

Students who have fulfilled all other requirements of the curriculum of the School of Architecture are eligible to begin the thesis for the degree of Graduate in Architecture on, and only on, the completion of one hundred and sixty-eight values, regardless of the time covered, provided that the minimum time is two and one-half years after the conferring of the junior certificate.

Students may begin the thesis and seminar required for the degree of Graduate in Architecture upon the completion of one hundred and sixty-eight values (with above minimum proviso), whether it be at the end of a half-year or not, and present the work at the end of a time equal to a regular half-year.

---

### SCHOOL OF EDUCATION

The term "School of Education" designates the professional courses intended:

1. For students preparing to become teachers in secondary schools and colleges;
2. For graduates of normal schools, who are making further preparation for teaching in elementary schools;
3. For students preparing to engage in school administration or to teach in normal schools or in university departments of education or to carry on research in the field of education.

While many of the courses offered are open to college juniors, the prerequisite for formal admission to the School of Education is the completion of at least three full years of undergraduate work.

For further information concerning the School of Education, see the annual announcement of the School, to be obtained from the Recorder of the Faculties.

---

### SCHOOL OF JURISPRUDENCE

The following persons will be admitted without examination, as candidates for the degree of Juris Doctor: (1) graduates of any college of the University of California, and of other colleges and universities of approved grade; (2) students of the University of California who have attained senior standing in the College of Letters and Science or in the College of Commerce.

For further information, see the annual announcement of the School, to be obtained from the Recorder of the Faculties.

## MEDICAL SCHOOL

**Matriculation.**—For matriculation in the Medical School—the five years' course leading to M.D.—the student is required to obtain the junior certificate in the College of Letters and Science, or to present evidence of an equivalent preparation. He must also give evidence of sufficient training in physics, chemistry and biology to enable him to pursue with profit the curriculum of the school and must possess a reading knowledge of French or German. The following courses now offered represent the minimum of satisfactory preparation in the sciences named (numbers refer to the Announcement of Courses for 1917-18); Chemistry 1A-1B, 8A-8B, 9; Physics 2A-2B and 3B; Zoology 1A-1B, 108.

By a resolution of the Academic Senate, the faculty of the Medical School is authorized to refuse admission to applicants with a low record in the required academic subjects.

**Combined Academic and Medical Course.**—Students in the College of Letters and Science who have completed a full year of work in the upper division, and who have satisfied all requirements for matriculation in the Medical School as stated above, may, at the beginning of their fourth or senior year in the College of Letters and Science, register also as students in the Medical School, and, upon completion of the first year in the Medical School, may receive the degree of Bachelor of Arts. Students who enter the Medical School in accordance with the foregoing provisions will be expected normally to have completed 94 units of university work in the academic departments, including such work in major courses (normally 18 units during the junior year) as may be acceptable to the faculty of the College of Letters and Science.

**The State law governing the practice of medicine** in California prescribes that every person before practicing medicine or surgery must produce satisfactory testimonials of good moral character and a diploma issued by some legally chartered medical school, the requirements of which shall have been at the time of granting such diploma in no particular less than those prescribed by the laws of the State, and which shall have received the approval of the Board of Medical Examiners that year. The requirements for matriculation in the University of California Medical School as above stated cover also the requirements of the Association of American Medical Colleges, provided that credit for matriculation subject 5, History and Government of the United States, be included.

For further information concerning the University of California Medical School, see the annual announcement of the School, to be obtained from the Secretary of the Medical School, Parnassus and Second avenues, San Francisco, California.

## CURRICULA IN PUBLIC HEALTH

There are three curricula in public health designated by the letters A, B, and C. Curriculum A is intended for general students in public health; curriculum B is intended for students holding the degree of Bachelor of Science from the College of Civil Engineering; curriculum C is intended for students of medicine and may be substituted for the second half of the fourth year and fifth, or interne, year, in the Medical School, without affecting the candidacy for the degree of Doctor of Medicine.

During enrollment in the Medical School, students in the Public Health course are subject to the usual fee of \$75 per half-year.

On completion of any of these curricula by properly qualified persons the degree of Graduate in Public Health (Gr.P.H.) will be conferred.

With the permission of the Committee on Public Health Study-Lists, courses may be substituted for those shown in the following curricula to the extent of not more than six units in each half-year.

## CURRICULUM A

A four-year course, three years in the College of Letters and Science, and one year in the Medical School. Two years may be credited toward the academic bachelor's degree. The completion of the first two years of this curriculum will satisfy the requirement of a major in Public Health of 24 units for the degree of Bachelor of Arts. The course begins with the junior certificate.

*Requirements for admission to the course.*—The junior certificate or evidence of an equivalent preparation; a reading knowledge of French or German; matriculation physics; Chemistry 1A-1B; Bacteriology 1; Zoology 1A.

The student is advised to avoid strict specialization in science and to devote his elective units as far as practicable to subjects of general culture. The following courses, however, should be provided for either before the junior certificate or by election later: Chemistry 8A-8B and 9; Economics 1A-1B.

## III (JUNIOR YEAR)

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Subjects	Units
Nutrition 114 .....	2	Anatomy 102 .....	3
Pathology 101 .....	4	Entomology 126 .....	3
Pathology 102 .....	2	Entomology 127 .....	2
Pathology 103 .....	1	Nutrition 116 .....	2
Veterinary Science 117 .....	3	Elective .....	6
Elective .....	4		—
	16		16

## IV (SENIOR YEAR)

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Subjects	Units
Hygiene 107 .....	3	Hygiene 104 .....	3
Hygiene 108A .....	3	Hygiene 108B .....	3
Physiology 107 .....	4	Zoology 111 .....	2
Elective .....	6	Zoology 111C .....	2
	—	Elective .....	6
	16		—
			16

## V (FIRST GRADUATE YEAR)

Civil Engineering 125 .....	2	Civil Engineering 128 .....	3
Economics 180 .....	3	Civil Engineering 124 .....	3
Political Science 115 .....	2	Economics 140 .....	3
	—	Economics 208B .....	3
	7		—
			12

## VI (SECOND GRADUATE YEAR)

## GIVEN IN THE MEDICAL SCHOOL

<i>First Half-year.</i>	Units
First month.—Lectures and out-patient clinics in the University of California Hospital. Such work will be arranged for each individual student in the various medical, surgical, and children's clinics .....	4
Second month.—Work with the Social Service Department of the University of California Medical School .....	4
Third month.—Work with the San Francisco Health Department. Investigation of city health problems, such as birth problems, morbidity statistics, etc. ....	4
Fourth month.—Work with the California State Board of Health. Investigation of state health problems in connection with bureaus in Berkeley.....	4
	16
<i>Second Half-year.</i>	
First and second months.—Out-patient Department work and lectures in specialties .....	8
Third and fourth months.—Research and writing of thesis under direction of Public Health Study-Lists Committee.....	8
	16

## CURRICULUM B

A two-year course, one year in the College of Letters and Science and one year in the Medical School. Prerequisite: The degree B.S. conferred in the College of Civil Engineering upon students who have completed the undergraduate curriculum in sanitary engineering.

Students electing this curriculum will find it advantageous to include Physiology 107 and Anatomy 102. With the consent of the committee, these courses may be substituted for courses listed.

## V (FIRST GRADUATE YEAR)

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Subjects	Units
Hygiene 107 .....	3	Economics 140 .....	3
Hygiene 108A .....	3	Entomology 126 .....	3
Pathology 102 .....	2	Entomology 127 .....	2
Pathology 103 .....	1	Hygiene 104 .....	3
Veterinary Science 117.....	3	Hygiene 108B .....	3
Political Science 115 .....	2		
	<hr/>		<hr/>
	14		14

## VI (SECOND GRADUATE YEAR)

Year in Medical School as listed in Curriculum A.

## CURRICULUM C

A course of one year and one-half, one year in the College of Letters and Science, and one half-year in the Medical School. Prerequisite: Completion of the first three and one-half years of the medical curriculum. At the end of the fifth year, the degree of M.D. in the Medical School and the degree of Gr.P.H. in the College of Letters and Science will be conferred.

In the cases of persons holding the degree of M.D. from acceptable schools, the curriculum required will be determined for each candidate by the committee on Public Health Study-Lists.

## IV

*Second Half-year*

Subjects	Units
Civil Engineering 128 .....	3
Civil Engineering 124 .....	3
Entomology 126 .....	3
Entomology 127 .....	2
Hygiene 104 .....	3
Hygiene 108B .....	3
Economics 140 .....	3
	<hr/>
	20

## V

*First Half-year*

Subjects	Units
Civil Engineering 125.....	2
Hygiene 107 .....	3
Hygiene 108A .....	3
Political Science 115 .....	2
Veterinary Science 117.....	3
	<hr/>
	13

*Second Half-year*

Assignments	Units
San Francisco Health Dept. ....	4
Social Service Dept. ....	4
State Board of Health .....	4
Field work in Epidemiology .....	
Research (with thesis).....	4
	<hr/>
	16



## **GENERAL REGULATIONS OF THE FACULTIES CONCERNING STUDENTS IN THE ACADEMIC DEPARTMENTS**

Following are certain general regulations governing residence and study in the academic departments. These regulations, unless otherwise stated, concern both graduate and undergraduate students.

### **ADMISSION AND CLASSIFICATION**

The status of all undergraduate students shall be probationary during their first year of residence. At the close of the probationary period, the question of the status of each student shall be reviewed by the Committee on Study-Lists of the college in which the student is enrolled, and his status shall then be determined by the Faculty, acting upon the recommendation of said committee.

Persons admitted to the University, who, in the judgment of the Committee on Credentials, have satisfactorily completed one year's work of collegiate grade, shall be regarded as students in the second year of the course.

Persons admitted to the University, who, in the judgment of the Committee on Credentials, have satisfactorily completed two years' work of collegiate grade, shall be regarded as students in the third year of the course.

Students who are classed as juniors shall be regarded as students in the third year of the course. Students who have received the junior certificate are in the upper division, which includes the third and fourth years of the course.

Regular undergraduate students and students at large retain their privileges as students so long as they maintain good standing in the University. The university membership of all special students and limited students, on the other hand, terminates at the close of each academic year, but may be renewed from time to time at the discretion of the proper faculty.

Any student may be transferred from one college of the University to another upon the approval of the Dean or other responsible officer or committee of the college to which admission is sought. A form of petition for such transfer is supplied by the Recorder.

A student at large, special student, or limited student may at any time attain the status of regular student by satisfying all the requirements imposed upon the regular members of the class he desires to enter.

## ROUTINE OF REGISTRATION

No student of the University may undertake any work or examination with a view to credit for a university degree without registration for such work or examination with the Recorder of the Faculties; such registration must be accepted by the proper faculty before the work proposed is undertaken. Students of good standing with a limited amount of regular class work may be permitted, on the basis of private study outside of university classes, to take certain matriculation or university examinations for the purpose of gaining advanced standing, but in all such cases the authorization of the proper faculty must be secured by written petition before preparation for such examination is begun.

All students shall register with the Recorder of the Faculties their choice of courses to be pursued in any half-year, on blanks provided for the purpose, at such time and place as may be designated for such registration. Registration at a later date can be effected only through special application to the Dean of the college in which the student is enrolled. A fee of two dollars is charged for late registration.

Students in year courses must register with the Recorder for such courses in January as well as in August.

Students are sometimes permitted to register for year courses in the second half-year without having been registered in the first half-year. In such cases credit is given for the work of the second half-year only.

The names of students who fail to comply with the regulations governing registration will not appear on the official class rolls.

No person will be admitted as a student to the exercises of any professor or instructor, except as authorized by the official certificate of registration and duplicate study-card furnished to each student by the Recorder, subject to the approval of the proper Study-Lists Committee.

Simultaneous registration in an undergraduate academic college and in a professional college is not permitted.

After the study-cards are filed, students will be given an opportunity to make changes, by formal petition, duly approved by the instructors concerned. But after the expiration of the period assigned for such changes, all *additions* must be distinctly approved and recommended by the instructors; and for every course added to or dropped from the study card a fee of one dollar will be charged.

Every regular student shall include in his study-card all required work appropriate to the college and year of his course. [The rules governing the choice of studies of *regular students* are stated in the description of the curricula of the several colleges.] The Committee on Study-Lists of his college is authorized to withdraw such study-cards as do not comply with this regulation.

When a student's study-card is withdrawn he is thereby suspended from participation in all university exercises.

#### UNITS OF WORK AND CREDIT; STUDY-LIST LIMITS

Both matriculation and university work are measured in "units". In the University a *unit of registration* is one hour of a student's time at the University weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation. Credit for 124, or more, units distributed according to the requirements of the college in which the student is enrolled is necessary for a degree.

Regular students who are free from deficiencies in their university work will be registered for not to exceed nineteen units of new work. *But in no case will a student in the upper division of any of the colleges in which the junior certificate is a requirement be registered for more than sixteen units.* Regular students with deficiencies will be limited to sixteen units. Freshmen and sophomores who are taking the *prescribed courses* in physical education, hygiene, or military science may, with the express approval of the Study-Lists Committee, add these courses to the maxima as stated herein. Courses taken in the University for the purpose of making up matriculation deficiencies are to be included in the maxima, as above. Work reported by the instructors as "incomplete" is regarded as deficient work.

Special students have free election, subject to the requirement that they confine their attention to some special study and its related branches.

Limited students have all their studies elective, but may take not more than thirteen units a week.

#### MILITARY SCIENCE, PHYSICAL EDUCATION AND HYGIENE

All undergraduate students shall, upon admission to the University, report immediately to the proper officers for enrollment in military science, physical education, and hygiene, following the Freshman Circular or the announcements which may be posted on the university bulletin boards. A deposit (about fifteen dollars) must be paid at once to the Comptroller of the University to cover the cost of the uniform to be used in military courses. Students shall list these courses upon their study-cards, with other university courses.

Petitions from students for excuse from, or deferment of, military science, physical education, or hygiene, filed by the petitioner after the expiration of two weeks following the date of the student's registration, will not be received except for illness or physical disability occurring after such date. Students who petition to be excused from these subjects

or from any of them should nevertheless present themselves to the proper instructors for enrollment during the pendency of petitions.

In case a student subject to these requirements shall list the prescribed course or courses on his study-card and thereafter without authority shall fail to appear for work in such course or courses, after a reasonable time, the neglect shall be reported to the Recorder, who, with the approval of the President, shall forthwith withdraw the study-card of the student, When a student's study-card is withdrawn he is thereby suspended from participation in all university exercises. It shall be the duty of the Recorder to inform immediately the Study-Lists Committee of the student's college (or the Committee on Special Students in case of a special student) of such withdrawal. With the approval of the professor in charge of the work, the Recorder is authorized to reinstate the student, and shall notify the Study-Lists Committee of such reinstatement.

[A circular containing important information concerning the requirements in military science, physical education, and hygiene, including a statement of the grounds upon which students may be excused from this work, may be obtained from the Recorder of the Faculties.]

#### AUTHORITY OF INSTRUCTORS

No student will be permitted to enter upon the study of any subject if the officer of instruction in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. This rule takes precedence of all others.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such way as the instructor may determine, that he is performing the work of the course in a systematic manner.

Any instructor, with the approval of the President, may at any time exclude from his course any student who, in his judgment, has neglected the work of the course. Any student thus excluded shall be recorded as having failed in the course of study from which he is excluded, unless the Faculty shall otherwise determine.

#### EXAMINATIONS

Final examinations will be assigned for all undergraduate courses excepting only such seminary, laboratory and other courses as shall have been exempted by authorization of the Academic Senate, and shall have been so listed in the annual Announcement of Courses. They will, so far as practicable, be conducted in writing, and a maximum time will be assigned beforehand for each, which no candidate will be allowed to exceed. Except in laboratory courses, the time for examination sessions shall not be more than three hours.

All final examinations, except those set for the senior class, are examinations for promotion to higher status. In the aggregate they constitute the examinations for eventual promotion to candidacy for the bachelor's degree.

The examinations at the end of the student's third, or junior year, including all examinations for deficiencies previously incurred, constitute the examinations for immediate promotion to senior standing.

In the five-hour language courses there are no final examinations, and students are graded upon their term work and mid-term examinations.

In the year courses of the professional curriculum in jurisprudence, mid-year reports may be made without formal examination, and such reports shall be final.

The annual examinations for bachelors' degrees, prescribed by law, are held in April and May of each year.

In order that the examinations for the bachelor's degree may be "thorough and complete," as prescribed in section 9 of the Organic Act, any department may examine students, at the end of the half-year immediately preceding the student's graduation, in the major subject in which such department has given instruction; and students to be examined in a major subject shall be excused from all course examinations in which said students shall have been enrolled during said half-year in the department of the major subject.

For seniors the examinations of the senior class constitute the entire examinations for the bachelor's degree. All other applicants for this degree will be examined, to such extent as the Faculty may in each case determine, upon the entire curriculum of study that is offered as a basis for the proposed degree.

No student will be excused from assigned examinations.

No book, manuscript or other source of information shall be brought into any examination room, except by the explicit order of the examiner. Nor shall any student, in the course of an examination, have any communication with another student for any reason whatever.

Any student tardy at an examination will be debarred from taking it, unless an excuse for such tardiness entirely satisfactory to the examiner be rendered.

A fee of five dollars is charged for every special examination. Any supplementary or deferred test required by an instructor of a student for the purpose of making up a course left "incomplete" is regarded as a special examination. Students taking two or more such examinations in courses taken during *any one half-year* will be charged not to exceed ten (10) dollars for all such examinations, instead of being charged at the rate of five dollars for each examination.

Re-examinations are permitted only for the purpose of *removing deficiencies*. Students who have received second grade or third grade in a given course are not allowed re-examinations for the purpose of improving their grading.

Application for examination for advanced standing on the basis of work done before entrance to the University should be made to the Recorder of the Faculties upon entrance to the University.

For examination for removal of matriculation deficiencies see under Methods of Admission in earlier pages of this circular.

#### GRADES OF SCHOLARSHIP

The results of examinations, together with term work when a record of the latter is kept, will for all undergraduate students be ranked and reported to the Recorder in five grades. The *1st grade* denotes marked excellence. The *2nd grade* indicates that the student's work has been thoroughly satisfactory. The *3rd grade* denotes a pass. Courses in which students have obtained a *4th grade* will not be credited to them, except upon the condition of passing a re-examination. The *5th grade* indicates failure and the necessity of repeating not only the examinations of a course but also the regular work. The report in case of absence from a required examination, or of failure to perform any of the allotted tasks in a given course, is *incomplete*. Work so reported must be made up within a year.

The reports in December, as in May, are final reports, not provisional reports, with the following exception: if the organization of the work permits and if the deficient student retains his status in the University, a *grade 4* or an *incomplete* in the first half of a year course (a "double-number" course) may, at the discretion of the instructor in charge, be removed upon the basis of the regular work and examinations of the second half-year. In every such case the student should apply promptly to his instructor for advice. It is not to be assumed that a passing grade in the work of the second half-year removes a deficiency in the first half-year.

Graduate students may be ranked and reported in the foregoing grades or they may be graded merely *passed* or *not passed* at the discretion of the instructor in charge.

The entrance examinations are ranked and reported to the Recorder in five grades, corresponding with the five grades used for reporting upon university courses. In the case of entrance examinations, either a fourth grade (condition) or a fifth grade (failure) may be removed by passing a re-examination.

## CONDITIONS AND FAILURES

For the removal of conditions, students shall have the privilege of taking the regular mid-year or annual examinations in the subjects in which they are conditioned. Examinations may be held at other times only by the special permission of the Academic Senate and on payment of a fee of five dollars.

Opportunity for the removal of matriculation deficiencies is offered at the entrance examinations each year in August and in January.

Any undergraduate student who at the end of any half-year fails to pass in at least eight units of duly registered work will be dropped from the roll; provided, that any student who for special reasons may be allowed to register for less than eight units must pass in all the units so registered. Independently of the "8-unit rule," students who deliberately neglect any part of the work for which they are registered—even if they pass eight units or more—may be dropped from the roll by faculty action. Any student dropped from the roll may be reinstated, after an interval of at least one half-year for reasons satisfactory to the Committee on Disqualified Students. It is therefore absolutely necessary for any disqualified student who proposes to return to the University to communicate without delay with this committee, through the Recorder of the Faculties, in order that the question of reinstatement may be considered by the committee and in order that the student may have ample opportunity to prepare for examinations or other tests which the committee may impose. The Committee on Disqualified Students consists of the Dean of the Faculties, the Dean of the Lower Division, and the Recorder of the Faculties.

Any student who is reported as having failed in an examination, or who, after being conditioned, does not pass the re-examination for the removal of the condition, will be required to repeat every such deficient subject with the class that next takes it; unless, on recommendation of the officer of instruction in charge, the Faculty shall permit him to review a subject in which he is thus deficient with the assistance of an acceptable private tutor; in which case he will be excused from attending the recitations, but will be required to take the regular examinations at the end of the year or half-year.

Deficiencies in military science and physical education have the same effect as deficiencies in other subjects.

A matriculation deficiency in a subject continued in the University, in which the deficient student attains a rank of second grade, may be removed by the proper faculty on the recommendation of the officer of instruction in charge of the subject, with the approval of the head of the department. Students, however, are cautioned not to assume in advance that this will be done. In some departments no matriculation credit is given except upon matriculation examination.

## LEAVE OF ABSENCE AND HONORABLE DISMISSAL

*Prolonged leave of absence* must be sought by written petition to the proper Faculty, and the petition must specify the length of time (not more than a year) and the reason for which the leave is desired. An indefinite leave of absence will in no case be granted.

*Brief leave of absence.* A student must apply for leave to be absent or excuse for having been absent from any college exercise other than an examination to the officer of instruction in charge of such exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for one day or for several days, in which case the proper Dean has authority to excuse. No excuse for absence will relieve the student from completing all the work of each course to the satisfaction of the instructor in charge. Leave to be absent from an examination must be sought by written petition to the proper Faculty.

College class officers may be allowed, with the approval of the President, to designate committees of students for decorating University halls for public days, and members of such committees may have leave of absence from college duties for not more than one day at a time for such purpose.

*Discontinuance without notice.* Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

*Honorable dismissal*, indicating that the student, while in good standing, has voluntarily severed his connection with the University, should be sought by written petition to the proper Faculty. Without such petition no record of honorable dismissal will be made.

## DISCIPLINE

The University authorities expect all students to set and observe among themselves a proper standard of conduct. It is therefore taken for granted that, when a student enters the University, he has an earnest purpose and studious and gentlemanly habits; and this presumption in his favor continues until, by neglect of duty or ungentlemanly behavior, he reverses it. But if an offense occurs, whether it be against good behavior or academic duty, the University authorities will take such action as the particular occurrence, judged in the light of the attendant circumstances, may seem to them to require. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

*Grades of Censure.* Censure will be expressed in the four grades of probation, suspension, dismissal, and expulsion. Probation indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, and with the presumption that the student's



connection with the University will be ended by it. Expulsion is the highest academic censure, and is final exclusion of the student from the University.

#### ATHLETICS

There shall be a standing committee on athletics, whose duty it shall be to supervise all matters relating to athletic contests, to promulgate and publish rules for the conduct thereof, and to represent the Academic Senate and Faculties in all matters that concern intercollegiate and other sports. This committee shall exercise its discretion in the conduct of all minor and routine matters relating to athletics, but on questions of broad university policy it shall report to the Senate. The Faculties will exercise such supervision over athletic contests, both intercollegiate and local, and over all matters pertaining thereto, as may appear necessary for the best interests of the University.

#### THESES FOR BACHELORS' DEGREES IN ENGINEERING AND AGRICULTURE

1. A student in any of the Engineering Colleges or the College of Agriculture may freely elect his thesis in any department offering work in the last two years of the college in which he is enrolled.

2. The subject of the thesis and the methods of work involved shall be appropriate to the aims of the college in which the student is enrolled.

3. On or before the first Monday of October of his senior year the student must present to his Study-Lists Committee a special Thesis Registration Card stating the department and the instructor with whom he elects to do his thesis work. This card must be approved by the instructors concerned.

4. The same rules and regulations shall apply to the thesis work that govern the student in regard to instruction, methods of withdrawal or substitution, grading, failure, etc., in other courses of instruction.

5. The candidate must report to the instructor in charge of his thesis work whenever called upon to do so.

6. The thesis must be presented in form sufficient for final examination and criticism by the instructor on or before the first Monday in April.

7. The thesis must be submitted complete on or before the last day of April.

8. A student expecting to be graduated in December must have his thesis subject approved on the third Monday of the preceding February, present the work for examination and criticism on or before the first Monday in November, and submit the thesis complete on or before the last day of November. In all other respects he will be guided by the above instructions, 1-7.

NOTE.—The size of page for theses is  $8\frac{1}{2} \times 11$  inches. Record ink should be used. For further instructions the student should consult the department in which his thesis work is taken.

**HONORABLE MENTION**

The term "Honorable Mention" is placed upon the junior certificates of students who have attained at least second grade in forty-eight (48) units of their freshman and sophomore courses.

**HONORS**

(a) Concerning honors with the bachelor's degree in the College of Letters and Science, in the College of Chemistry and in the College of Commerce, see the sections explanatory of the work of these respective colleges in earlier pages of this circular.

(b) In the Colleges of Engineering and Agriculture students may receive honors with the bachelor's degree on the basis of the quality of the work done in the regular curriculum of the senior year, or of a thesis showing ability to do original work, or of distinction in the advanced work of any department, as attested by the recommendation of that department.

**DEGREES**

Every undergraduate student who intends to become a candidate for a degree must file with the Recorder of the Faculties a detailed schedule of studies offered for the degree sought. This schedule must be filed by regular students at least six calendar months, by all other students at least one full academic year, before the date proposed for graduation, and must be approved by the committee on graduation of the college in which the student is enrolled.

Of the one hundred and twenty-four (or more) units required for the bachelor's degree, at least twenty-four units must have been completed at this University.

Courses not required by the curriculum for graduation may be dropped from the record of any student on formal petition to the Faculty concerned.

Work done in any professional college or school of this or any other university, or in any independent professional school, will not be accepted as a substitute for any part of the work of the first three years of the undergraduate course or of the first year of the upper division.

Work done in a professional college of this university by a regular student will be accepted as a substitute for not more than one year's work (normally the senior year) in a college of general culture, the amount and character of said year's work to be determined after consultation with the professional faculties.

As a matter of courtesy between different faculties of the University, there is no objection to the acceptance of work done in a professional college as a substitute for work done in an academic college, provided such substitution be made in accordance with the regulations and with the consent of the department concerned at Berkeley certifying that the work is of equal value. But such work cannot be counted twice (except by special legislation), once for a professional degree in a professional college and again also for an academic degree.

All the graduates of any one calendar year—January 1 to December 31—shall be ranked as belonging to the so-called class of that year.

### **THE GRADUATE DIVISION**

For information regarding all matters pertaining to the Graduate Division, including the requirements for the degrees of Master of Arts, Master of Science, Graduate in Public Health, Graduate in Architecture, Juris Doctor, Mechanical Engineer, Electrical Engineer, Civil Engineer, Metallurgical Engineer, Mining Engineer, and Doctor of Philosophy see the latest Announcement of the Graduate Division, to be obtained upon application to the Recorder of the Faculties.

**GENERAL INFORMATION****DEANS OF THE COLLEGES**

The duties of the Deans of the several colleges at Berkeley are as follows:

1. To issue excuses for brief absence to students enrolled in their respective colleges in all cases in which the absence shall exceed one day. For single absences instructors shall have power to excuse.
2. To answer inquiries from students of their respective colleges, or from their parents or guardians, as to the rules and regulations of the University; and to give information or explanation to students and others who may be in doubt as to the requirements or methods of procedure.
3. To act as advisors of students in their respective colleges, or to designate advisors for them from their respective faculties.

**THE DEAN OF THE LOWER DIVISION**

The Dean of the Lower Division assists the President of the University and the faculties of the academic colleges in matters pertaining to the general and personal interests of the students of the sophomore and freshman classes.

**THE DEAN OF WOMEN**

The Dean of Women assists the President of the University and the faculties of the academic colleges in matters pertaining to the general and personal interests of the women students of the University.

**THE ONE-MILE LIQUOR LAW**

Section 172 of the Penal Code of California makes it a misdemeanor for any person to sell, give away, or expose for sale upon the University grounds, or within one mile thereof, any vinous or alcoholic liquors. In addition, all traffic in liquors is prohibited by the municipal ordinances of the city of Berkeley.

**EXPENSES OF STUDENTS**

*Tuition* in the academic colleges at Berkeley and tuition at the Lick Observatory is free to residents of the state. Non-residents of California are charged a tuition fee of ten dollars each half-year. Tuition in the Medical School, both for residents and for non-residents, is \$150 a year.

Students in Public Health, Curricula A and B, are subject to the fee of \$150 for the year spent in the Medical School; students in Curriculum C are subject to the fee of \$75 during the half-year in the Medical School (second half of the fifth year). The following incidental expenses are to be met:

*Gymnasium and Infirmary Fees.*—The gymnasium fee is \$2 per half-year, and the infirmary fee is \$3 per half-year; both are payable by every student, graduate or undergraduate, before his study-card is filed. These fees entitle students to gymnasium and hospital privileges, and are not remitted, in whole or in part, for those who may not desire to make use of these privileges. Gymnasium privileges comprise, besides the use of the gymnasium, tennis courts, swimming pool, baths, lockers, washrooms, etc. The infirmary fee entitles students, in case of illness, to hospital care (cost of surgical operations not included) or dispensary treatment. One-half of the amount of these fees is returned to students who leave the University during the first half-year before September 1 or during the second half-year before February 1.

University students assigned to work at the University Farm, Davis, are required to pay a gymnasium and infirmary fee of \$5.

A law library fee of \$12.50 per half-year is payable at the time of registration by every student registering in more than one professional course in law.

*Laboratory Fees.*—In the laboratories a charge is made for materials actually used. This charge, for students in the elementary laboratories, amounts to from \$5 to \$30 per annum.

*Military Uniforms.*—Every able-bodied male undergraduate student is required to take military exercises during his first two years in the University. Students may be required to deposit with the Comptroller immediately after admission a sum sufficient to cover the cost of the uniform (about \$15). Uniforms made by any other than the authorized manufacturer will not be accepted.

*Board and lodging* may be obtained in private families in or near Berkeley and Oakland at from \$30 to \$45 a month. They may often be had in return for various personal services in the household. The hours of recitation are such that many students reside in Oakland and San Francisco. The journey from San Francisco requires forty minutes. The cost of board and lodging, in students' boarding clubs, ranges from \$20 to \$25 a month. A few students "board themselves" for as low as \$20 a month, but this plan of living is not generally to be recommended.

There are no dormitories maintained by the University. Lists of boarding places approved by the University authorities are published at the opening of every session, one list for men and another for women.

No freshman woman is permitted to complete her registration unless her boarding place is first approved by the Dean of Women.

*Other expenses* are: Gymnasium outfit for men, about \$5; two launderable gymnasium suits and a pair of gymnasium shoes for women, about \$8; books and stationery, from \$18 to \$25 per annum. All students are eligible to membership in the Associated Students of the University of California. The cost of a membership card is about \$5 per year. The card entitles the holder to participation in the affairs of the Associated Students; a free subscription to the *Daily Californian*; free admission to all athletic contests held on the campus under the jurisdiction of the Associated Students with the exception of final intercollegiate contests, and membership in the Associated Students' Store with the privilege of rebates on all purchases.

The *yearly expenses*, including personal expenses, on an economical scale, of a student in the academic departments would probably be at least \$500.

*Opportunities for Self-Support*—Board and lodging can often be obtained in exchange for three or four hours of household work daily. Men students desiring employment should apply for information at the Employment Bureau, Room 114, California Hall; women, at the office of the Dean of Women, 205 California Hall.

Other work by students is paid for at the following approximate rates:

Manual labor (men), 25 cents to 30 cents per hour.

Clerical work, 25 cents per hour.

Typewriting and stenography, 35 cents to 40 cents per hour.

Telephone service (women), 20 cents to 22 cents per hour.

Sewing (women), 25 cents per hour.

Taking care of children (women), 25 cents per hour.

A student qualified to do draughting, computing and other technical or expert work can occasionally find employment at rates considerably higher than the above.

General manual work, such as gardening, sweeping and cleaning, wood-cutting and the like, housework of all sorts and typewriting, especially with stenography, can always be found. For other employment the opportunities are not so great, the demand for it by students being always larger than the supply.

Self-supporting students are respected. With reasonable diligence a student can devote from twelve to twenty-five hours per week to outside work without seriously interfering with college work of from twelve to sixteen units (involving thirty-six to forty-eight hours per week). It should always be borne in mind, however, by students seeking employment that not every kind or every amount of outside work is entirely compat-

ible with the student's main purpose at the University, namely, his education.

The Young Men's Christian Association acts as a bureau of information concerning boarding places and opportunities for remunerative employment.

Applications for employment in teaching or tutoring should be made at the office of the Appointment Secretary, 102 California Hall; for employment in stenographic, clerical, manual or other labor not connected with teaching, students should confer with the Employment Secretary, 114 California Hall. These agencies, however, can do little for students who are not actually on the ground to negotiate for themselves. It is usually so difficult for a stranger to secure remunerative employment from the start that, in general, no one should come to Berkeley expecting to become self-supporting through the university course, without having on hand at the beginning sufficient funds to cover the expenses of the first year.

#### LOAN FUNDS

Women students desiring to draw on the Prytanean Society and Napa Seminary Club Loan Funds should confer in first instance with the Dean of Women. Applications on all other funds should be addressed through the Secretary to the President, to the Committee of Award, on the loan fund forms available in the President's Office. Applications of freshmen for loans from loan funds are in general discouraged, preference being given to students in the upper classes. Loans from loan funds and appointments to scholarships, unless otherwise required by the terms of endowment or gift, shall be applicable only to undergraduates in the colleges at Berkeley. Save in very exceptional cases, a student may not borrow from a single fund, or by combination of sums from different funds, more than one hundred dollars, previous loans counting toward this total.

*The Prytanean Loan Fund.*—The Prytanean Society has established a Loan Fund, which may be drawn upon for the purpose of aiding deserving undergraduate women students in good standing. The fund is administered by a committee composed of the Dean of Women, the president of the Prytanean Society and a third member by them selected.

*The Loan Fund of the Class of 1881* was accepted by the Regents from the class on February 13, 1912, and is available for loans to fully matriculated students in the University at the discretion of the President and the Dean of the Lower Division.

*The Frank J. Walton Memorial Loan Fund* was established by the graduates of the Class of 1883 in memory of a classmate deceased. Loans are

available to "undergraduate students in the academic departments at Berkeley who are studying for degrees and who have finished half their undergraduate course."

*The Memorial Loan Fund of the Class of 1886* was accepted by the Regents from the trustees of the fund in April, 1902. In the distribution of loans from the fund precedence is given to students in the higher classes. No loans are made to freshmen.

*The Loan Fund of the Class of 1895* was established by the class and accepted by the Regents in January, 1911. The committee having authority to determine the administration of the fund awards loans for the benefit of students of the University above the freshman year.

*The Loan Fund of the Class of 1897* was established by the class and accepted by the Regents in April, 1913. It is available for loans to deserving undergraduates.

*The Loan Fund of the Class of 1898.* On October 10, 1911, a member of the Class of 1898 presented \$200 to the Regents as an acknowledgment of his indebtedness to the University for a scholarship enjoyed in his undergraduate course; he asked that the money be used as a loan fund (or scholarship) to be named after his class.

*The Loan Fund of the Class of 1903* was established by the class in the year of its graduation. "Application for a loan may be made by any college student having a senior standing."

*The Loan Fund of the Class of 1909* was established by the class in the year of its graduation and accepted by the Regents in August of that year. Loans are available "for juniors and seniors in the University only."

*The Loan Fund of the Class of 1911* was established by the class in the year of its graduation and accepted by the Regents in June of that year. The fund is available for loans to deserving students.

*The Grubstake W Loan Fund* was established through gift of a stranger who in September, 1908, called upon the President of the University, describing himself as a messenger from a man "up in the woods" who wished to "grubstake" some student who was working his way and needed a little money to help him finish his college course. The gift was reported by the President to the Regents, and is used in accordance with the desire of the donor as a loan fund. Loans are given to men only and by preference to students in the engineering colleges, especially the College of Mining.

*The University Medal Loan Fund* was created by the Regents through sale to the United States mint of three gold medals which the medalists preferred not to accept. The fund is available for loans to students.



*The Hammerslag Loan Fund* was founded in February, 1910, in accordance with the terms of the will of Mr. A. Hammerslag. Loans are made in monthly sums or other periodical amounts to such students as would otherwise be unable or find it extremely difficult to continue their course in the University. Preference is, in accordance with the desire of the donor, given to students in scientific courses and, when possible, to students who in the opinion of the President are likely to do original work in any branch of science.

*The Napa Seminary Club Loan Fund* has its foundation in a gift from former students of Napa Seminary and is administered in loans to undergraduate students of the junior or senior classes in the departments at Berkeley. It may eventually after additional gifts with accumulating interest be changed into a scholarship. Preference in loans is given to descendants of Napa Seminary students and to women students.

*The San Joaquin Women's Clubs Loan Fund* was accepted by the Regents from the San Joaquin District of the California Federation of Women's Clubs and is to be used to assist women students of the University, preference being given to those in the last year of the undergraduate course. No loans may be made to freshmen and only regular students are entitled to borrow.

*The Mining Student Loan Fund* was accepted by the Regents from Mr. F. W. Bradley, '86. Loans are to be made only to students in mining and metallurgy in the College of Mining at Berkeley who may need pecuniary assistance during their college careers and who show through their past records and current University records promise of future usefulness in the development of mining resources of the state. Precedence is given to upper classmen. Loans from this fund are limited to \$200.

*The Snell Seminary Memorial Loan Fund* was accepted by the Regents from members of the Alumnae Association of the former Snell Seminary on May 12, 1914. The fund commemorates Miss Mary E. Snell, Miss Sarah H. Snell, Mrs. Edna Snell Poulson, and Richard B. Snell, and is designed to aid deserving women undergraduates of the University, preference being given to former pupils of Snell Seminary or to the female descendants of such pupils.

*The Denicke Loan Fund for Members of the Faculty.*—The executors and heirs of the estate of former Regent Ernst A. Denicke—Mrs. Ernst A. Denicke, Regent James K. Moffitt, Mr. Frederick A. Denicke, Mrs. A. O. Leuschner, and Mr. Ernst H. Denicke—have created an endowment of \$6000, the income of which is available for loans to members of the faculty. Applications should be made in person to the President of the University. Loans exceeding \$100 in amount must receive the

approval of all the members of the executive board—the President, the Dean of the Faculties, and a Regent to be appointed annually by the Board. Interest attaches at the rate of 6 per cent and the term is one year, with installment payments or six months for repayment in one amount.

*The Frederick W. Dohrmann Fund for Members of the Faculty.*—Mrs. Minna D. Pischel, Mr. A. B. C. Dohrmann, and Mr. Frederick Dohrmann, Jr., in memory of their father, Frederick W. Dohrmann, Regent of the University from 1903 to 1914, and in fulfillment of his suggestions, have created an endowment of \$5000, the income of which is available for temporary loans to members of the faculty, “to lessen solicitudes and burdens which might impair in any way their effectiveness as teachers and scholars.” Applications should be made in person to the President of the University.

*The Xi Psi Phi Fraternity* of the College of Dentistry of the University of California has made a gift to the University of \$150, to be used as a loan fund for deserving students in the College of Dentistry.

*Walcott Medical Loan Fund.*—Dr. A. M. Walcott of Porto Velho, Brazil, a graduate of the University of California Medical School of 1907, donated to the Medical School in January, 1917, \$150, which the Regents have constituted a loan fund for needy medical students. In April, 1917, Dr. Walcott added to his gift another \$150, making a total of \$300 in this fund.

*The Lois Caswell Fund* for the Dean of Women was established by Professor and Mrs. George H. Howison in 1916. This fund of \$600 per annum was given to “aid deserving women students.”

## MEDALS

*The University Medal*, by direction of its founders, is bestowed upon the most distinguished scholar of the graduating class of each year.

*The Carnot Medal*, given annually (beginning 1895) by the Baron de Coubertin in honor of the late President Carnot of France, is competed for by three representatives each of Leland Stanford Junior University and the University of California, debating upon some topic connected with contemporary French political affairs. The debate is held in the month of April. The award is made to the student who displays the highest merits as a speaker.

## PRIZES

*The Bryce Historical Essay Prize* of \$100 was established by Regent R. J. Taussig, to be awarded annually to the writer of the best essay on an historical subject to be chosen by the board of judges. The subject for 1917–18 will be announced later. Chairman of committee in charge,

Professor Stephens. All essays entered in competition should be in the hands of the Recorder by April 1.

*The Richardson Latin Translation Prize* of \$75, established by the will of the late Professor George Morey Richardson, is awarded annually to an undergraduate of the University of California for the best translation of classical English into Ciceronian Latin. Students who wish to compete for this prize should make their intention known to the Professor of Latin before March 15 of each year.

*The Dante Prize* of \$100, offered each year by the Dante Society of Harvard University, is open to students in any department of this University or to a graduate of not more than three years' standing. Inquiries may be addressed to the Secretary of the Society, Professor F. N. Robinson, Cambridge, Massachusetts.

*The Bennett Prize*, yielding at present \$25 annually, has been established by Mr. William Jennings Bryan, as trustee for the late Philo Sherman Bennett, for the best essay discussing the opportunities of a free government. The competition usually closes about the first week of April.

*The Emily Chamberlain Cook Prize in Poetry*.—Albert S. Cook, formerly a professor in the University of California and now of Yale University, has given to the University of California the sum of \$1000, yielding about \$50 per annum, to establish an annual prize in poetry in commemoration of his deceased wife, formerly Emily Chamberlain of Berkeley, California. Competitive poems for 1917-18 must be in the hands of the Recorder of the Faculties, California Hall, by March 8, 1918, 5 p.m.

*Newman Hall Essay Prize*.—The Alumni Council of the Newman Club has offered a prize of \$100 to a student or recent graduate of the University for the best essay on history or literature. Subject for 1917-18: "Some modern programmes of Catholic Social Reform." Essays should be in the hands of the Recorder on or before March 1, 1918. Committee in charge: Professors Flaherty, Stephens, and a third to be selected by them. Further details will be announced in the University Calendar or upon the bulletin boards.

*The Irving Prize*, yielding about \$25 annually, has been established by Mr. S. C. Irving of the Class of '79 for the best comic story, sketch, anecdote, or parody, in prose or verse, composed by a member of the student body. Committee in charge: Professors Wells, O'Neill, Taylor, Mr. Irving. Contributions should be in the hands of the Recorder by April 1.

*The Chi Omega Prize*.—The Chi Omega Fraternity has offered a prize of \$25 to be awarded to the student in the senior class who has completed with the greatest distinction, in the junior year, 12 units in major

courses concerned with the problems of social economics. The prize is awarded annually.

### INTERCOLLEGIATE DEBATE

The students of Leland Stanford Junior University and the University of California have an intercollegiate debate in the fall term of each year.

### SCHOLARSHIPS

#### PRIMARILY FOR UNDERGRADUATES

*Applications for Scholarships.*—Applications for undergraduate scholarships, with letters and testimonials connected therewith, should be in the hands of the Recorder of the Faculties at Berkeley on or before the 15th day of March preceding the academic year for which the awards are to be made.

Awards will be announced in May, if possible, and notice thereof will be sent by mail to each applicant. Payments are made at the office of the Comptroller of the University in California Hall, in ten monthly installments, beginning September 1. A blank form of application may be obtained from the Recorder of the Faculties.

*The Phoebe A. Hearst Scholarships for Women.*—Eight scholarships for young women in the University of California, of an annual value of \$300 each, are given annually by Mrs. Phoebe A. Hearst. Two scholarships were given in 1891, and the others have been added since that time. The award is made by the Academic Senate of the University, but any school officer of this state may recommend candidates. In accordance with the express desire of the founder, the qualifications are noble character and high aims; further, the award is not to be made as a prize for honors in entrance examinations, and it is understood that without this assistance a university course would in each case be impossible.

*The Carrie M. Jones Scholarships for Men* were established in 1912 by the will of Mrs. Carrie M. Jones of Los Angeles. The income is awarded in scholarships of \$200 each. The awards are made by the Academic Senate of the University.

*The State of California Scholarships.*—In accordance with action taken March 9, 1897, the Regents of the University set apart annually, out of the income furnished to the University by the state, the sum of \$3500, to be distributed among the eleven Congressional districts of the state, for the purpose of aiding poor and deserving students to attend the University. The scholarships so founded are known as the State of California Scholarships, and provide for twenty-eight of \$125 each.

The Congressional Districts of California are as follows:

1. The counties of Del Norte, Humboldt, Mendocino, Glenn, Colusa, Butte, Sutter, Yuba, Marin, Lake, Sonoma.

2. The counties of Siskiyou, Modoc, Trinity, Shasta, Lassen, Tehama, Plumas, Sierra, Nevada, Placer, El Dorado, Amador, Calaveras, Alpine, Tuolumne, Mariposa.

3. The counties of Napa, Yolo, Sacramento, Solano, Contra Costa, San Joaquin.

4. All that portion of the city and county of San Francisco bounded as follows: Commencing at the point of intersection of the center of Twentieth street and the Bay of San Francisco, continuing thence along the center of the following named streets: Twentieth to Bryant avenue, Bryant avenue to Eleventh, Eleventh to Van Ness avenue, Van Ness avenue to McAllister, McAllister to Masonic avenue, Masonic avenue to Fulton, thence along Fulton to the Pacific Ocean, thence along the shore of said ocean to the Bay of San Francisco, and thence along shore of said bay to Twentieth street, to point of beginning; together with all the waters of the Bay of San Francisco, and the islands contained therein, situate within the boundaries of the city and county of San Francisco.

5. All that portion of the city and county of San Francisco not included in the Fourth Congressional District, with the islands known as the Farallone Islands.

6. The county of Alameda.

7. The counties of Stanislaus, Fresno, Merced, Madera, Kings, Tulare, Kern.

8. The counties of San Mateo, Santa Clara, Santa Cruz, San Benito, Monterey, San Luis Obispo, Santa Barbara, Ventura.

9 and 10. The county of Los Angeles.

11. The counties of San Bernardino, Orange, Riverside, San Diego, Mono, Inyo, Imperial.

*The Levi Strauss Scholarships.*—At the same meeting of the Regents at which provision was made for the State of California Scholarships, Mr. Levi Strauss of San Francisco duplicated the action of the Regents by providing for additional scholarships, twenty-eight in number, to be distributed and awarded on precisely the same terms as those prescribed for the State of California Scholarships. Since the death of Mr. Strauss, September 26, 1902, Levi Strauss & Co. have generously provided for the continuance of the scholarships. The value of these scholarships is \$125 each.

*Method of Distribution of State of California and Levi Strauss Scholarships.*—Of the fifty-six State of California and Levi Strauss scholarships, fifty-five are to be awarded to applicants from the eleven congressional districts, each district to receive five scholarships, provided worthy candidates appear; and one scholarship is to be awarded at large without regard to congressional districts. The committee of award will interpret the word "worthy" in such a way as to exclude candidates whose qualifications are below the standard that may safely be maintained for university matriculation. Where worthy applicants from any congressional district do not equal the number of scholarships the vacancies will be filled from the applicants from other congressional districts in the order of their merit.

*The Cornelius B. Houghton Scholarship* was established in 1899 by Mrs. Cornelius B. Houghton of Benicia, California, in memory of her late husband. The award is made by the Academic Senate on the basis of character, ability and need, preference being given to students who may reside in or be otherwise connected with Benicia or its neighborhood. The income is approximately \$125 per annum.

*The San Jose High School Scholarship*, of the value of \$125, is awarded annually by the faculty of the San Jose High School to a graduate of the school who is, or intends to become, a student in the University of California. The applicant must have been in the San Jose High School at least three years. Applications for the scholarship must be filed with the faculty of the school not later than the 10th of June immediately preceding the student's entrance to the University of California.

*The Girls' Scholarships of the Los Angeles High School*, averaging three in number and amounting to \$250 each, are maintained by the pupils of the school. In 1899 a society composed of the young women of the senior class was organized for the purpose of providing loan funds which should enable graduates of the Los Angeles High School to pursue further studies wherever they may desire. Successive senior classes have carried forward the work. The awards are to be made to members of the graduating class chosen for scholarship, character and need. Beneficiaries must engage to refund to the organization the amount received as soon as possible after becoming wage earners. Since the addition of the Junior College, preference in the awards has been given to students who have completed the two college years.

*The Santa Cruz High School Scholarship*, of the value of \$100 a year, is maintained by the Alumni Association of the Santa Cruz High School. The scholarship is awarded annually to some graduate of the Santa Cruz High School, upon the basis of character, ability and need.

*The Ernest V. Cowell Scholarship Fund.*—In January, 1904, the late Ernest V. Cowell of the class of 1880, of Santa Cruz, California, established two scholarships, each of the value of \$250 a year. The fund is administered by a Board of Trustees appointed by Mr. Cowell. The awards are made annually to meritorious graduates of the Santa Cruz High School, or, at the discretion of the Board of Trustees, to other persons of marked ability, good character and pressing need.

*The Hinckley Scholarship* of \$300 may be awarded each year by the Trustees of the William and Alice Hinckley Fund (San Francisco) to "some young man in the University of the state or in some school."

*The Albert Sydney Johnston Memorial Scholarship.*—Chapter 79 of the United Daughters of the Confederacy makes provision for the support in the University of an undergraduate scholarship with the foregoing designation. The appointment is made by the Chapter, subject to the approval of the Regents or Faculties of the University. The candidate must be a descendant of a Confederate veteran or of a Daughter of the Confederacy and must have complied with the entrance requirements of the University of California. The value is approximately \$150.

*William R. Davis Scholarship.*—The late William R. Davis of the class of 1874 presented to the University \$11,000, the income thereof to be devoted to the maintenance of scholarships to be awarded from time to time "to such worthy students of the University, of either sex and bona fide residents of California, as shall be deemed worthy and found in need of such assistance." The income from this fund is about \$500 a year.

*The Helen J. Du Bois Scholarships.*—In accordance with the will of Miss Helen J. Du Bois, of the class of 1903, sums amounting to more than \$5000 have been given to the University. The income from this fund is to be used to help worthy individuals who could not, by reason of financial disability, obtain an education without such assistance. The awards are made by the Academic Senate of the University. The scholarship amounts to \$150 annually; an additional scholarship of \$150 is awarded when the income will allow.

*The John and Bertha Dolbeer Scholarships.*—Miss E. Marion Warren of Menlo Park, California, has given to the University a sum of money, the income from which is to be used for four scholarships of \$200 each. Two of these are to be known as the John Dolbeer Scholarships for men, in the award of which preference is to be given to students enrolled in the College of Commerce; two are for women, and are to be known as the Bertha Dolbeer Scholarships. The awards are made by the Academic Senate of the University.

*San Francisco Girls Union Scholarship.*—An endowment of \$5000 has been made by the San Francisco Girls Union, which yields approximately \$250 per annum.

*The Albert Bonnheim Scholarships.*—On April 5, 1897, Albert Bonnheim and Fannie Bonnheim created the Joseph Bonnheim Memorial Fund in memory of their son, for the maintenance of scholarships for young men and women. On September 4, 1915, the Trustees of the Foundation conveyed this endowment to the Regents of the University of California, the principal to be kept intact and the income to be expended "in assisting worthy boys and girls in their education at the University of California with a view of making them self-supporting as rapidly as possible," the Regents to "use their own best judgment in making selections of persons to receive assistance and in determining the amount to be expended for assisting beneficiaries, provided that the benefits to any one person shall not be less than \$20 per annum nor more than \$400 per annum," in the selection of beneficiaries to "make no distinction on account of sex, race, color, nationality, or religion, giving preference, however, to boys and girls between the ages of 16 and 19 years, but continuing the assistance after that age if in their judgment necessary to make the beneficiary self-supporting." It was stated in the trust deed that "by 'education' is meant education in its broadest sense, having in view such preparation and training as will make the beneficiary self-sustaining by whatsoever trade, profession, or calling may seem best adapted for such purpose in each case."

*Bernard Nathan Scholarship.*—Bernard Nathan has made a bequest of \$5000 to the University, the income from which is to assist deserving students, with particular consideration for those of Jewish parentage. The income is about \$225.

*Hawaiian Alumni Loan Scholarship.*—The scholarship was established in 1916, as a loan scholarship, yielding \$500 annually.

*Jerome C. Levy Scholarship, from the Stockton High School.*—Mr. and Mrs. Max Levy have provided a perpetual scholarship in loving memory of their departed son, Jerome C. Levy. This scholarship, yielding \$100 annually, is to be awarded by the faculty of the Stockton High School in June of each year to the most deserving member of the graduating class who plans to enter the University of California. The award will be made upon the basis of character, scholarship, and need, and will be made public at the Commencement exercises. The amount will be paid by the Stockton Board of Education in eight equal installments of \$12.50 on the first day of each and every month, beginning September 1. Applicants for the scholarship must fill out the regular blank and file it with the principal on or before May 1.



## SCHOLARSHIPS

## FOR GRADUATES OR UNDERGRADUATES

*Applications for Scholarships.*—Applications for undergraduate scholarships should reach the Recorder of the Faculties at Berkeley on or before the 15th day of March preceding the academic year for which the awards are to be made; applications for graduate scholarships should reach the Recorder of the Faculties at Berkeley on or before the 1st day of March preceding the academic year for which the awards are to be made. For further directions see under scholarships primarily for undergraduates and fellowships for graduates respectively.

*The Horatio Stebbins Scholarship*, founded in memory of the late Regent Horatio Stebbins, became available for 1914-15 and thereafter. By the express wish of the donor "the beneficiary shall be a woman in the University of California." The scholarship yields \$150 a year.

*The Willard D. Thompson Memorial Fund*, established in 1910 by the will of Mrs. Jennie D. Thompson of Salt Lake as a memorial to her son of the class of 1895, provides for scholarships for the higher education of worthy young men and women, residents of Utah, who shall have completed at least a four years' course in some high school of recognized standing. The fund supports five scholarships yielding \$600 each. Applications should be in the hands of the Recorder of the Faculties on or before March 1, 1918.

*The P. Charles Cole Scholarship*, founded upon the bequest of the late P. Charles Cole, became available for 1915-16 and thereafter. The testator provides that his own heirs are to have the preference or benefits, if qualified to enter the University. The value is approximately \$125.

*The Sheffield Sanborn Scholarships.*—Mrs. Frances B. Sanborn, widow of Sheffield S. Sanborn of the class of '94, has established three scholarships, to be known as the Sheffield Sanborn Scholarships. One of the scholarships is for a student in medicine, one for a student in law in the Berkeley colleges, and one for a student in Hastings College of the Law. The scholarships are open only to students who have not received a degree in law or medicine and who otherwise would not have the opportunity to acquire a university training. Each yields about \$250 a year.

*The Bertha Henicke Taussig Memorial Scholarship* was established in the University of California, June, 1914, by the trustees of a fund of \$10,000 created under the will of Hugo A. Taussig of San Francisco for the purpose of establishing in memory of his wife "a scholarship for

women in some university, or to be used in any other way for the higher education of women." In accordance with the directions of the trustees, preference is to be given, in the order named, to students of art, architecture, or literature. The recipient is to pursue her studies at the University of California or elsewhere as may be determined by the University. The annual income from this scholarship will be approximately \$400.

*William Watt Kerr Scholarship in Medicine.*—The alumni of the University of California Medical School have given \$400 a year for five years beginning with the academic year 1916-17, for a scholarship, named in honor of the late Professor Kerr, to be awarded to a worthy medical student.

*The Anne Sampson Scholarships or Fellowships* were established by Professor and Mrs. George H. Howison in 1916. These scholarships or fellowships (not as yet available) will be open to women students "in such studies of English literature and criticism as the chief professor in the English department and his principal associates may determine, the appointees to be selected and nominated to the Board of Regents by the said professors," and each scholarship to carry a stipend of \$300 or \$400 per annum.

## FELLOWSHIPS AND SCHOLARSHIPS

### FOR GRADUATES

**NOTE.**—Graduate scholarships and fellowships are awarded as a mark of honor, on the basis of scholarship—not of need; and the holders thereof are expected to devote all their time to their work in the University.

*Applications for Scholarships and Fellowships.*—Applications for all fellowships or scholarships in the graduate division, with letters and testimonials connected therewith, should be in the hands of the Recorder of the Faculties at Berkeley on or before the first day of March preceding the academic year for which the awards are to be made. Awards will be announced during April, if possible, and notice thereof will be sent by mail to each applicant. Payments are made at the office of the Comptroller of the University, in California Hall, in ten monthly installments, beginning September 1. A blank form of application may be obtained from the Recorder of the Faculties.

*The University Fellowships.*—In April, 1909, the Regents of the University provided for eight fellowships of the annual value of \$500 each. For 1917-18 these fellowships have been awarded as follows: one in zoology, one in English, one in philosophy, two in chemistry, one in

mathematics, one in soils, and one in geology. Applications should be made through the Recorder of the Faculties to the Committee on Graduate Scholarships and Fellowships.

*Columbia University Graduate Scholarships in Engineering.*—Beginning with the academic year 1915-16, a number of special scholarships in the new advanced courses in the schools of mines, engineering, and chemistry of Columbia University, New York, were established, to be awarded to students or graduates of a limited number of colleges and technical schools of high rank. The scholarships carry with them a stipend of \$250, sufficient to cover tuition charges for one year. One of these scholarships has been designated to the University of California. Applications for this scholarship should be filed with the Recorder of the Faculties.

*The LeConte Memorial Fellowship Fund* has been established by the Alumni Association of the University in memory of Professors John and Joseph LeConte. Its annual income is about \$450, which may be devoted to the support of one or more fellowships, at the discretion of the Board of Administration of the Fund. Appointees must be graduates of the University of California of not more than three years' standing at the time of award; the sole test is superior excellence, as determined at its discretion by the Board; and recipients are to pursue their studies either at the University of California or elsewhere, as the Board may determine. Application forms may be obtained from the Recorder of the Faculties.

*The John W. Mackay, Junior, Fellowships.*—Under the terms of an endowment made by Clarence W. Mackay of New York City, jointly with his mother, Mrs. John W. Mackay, the University of California has established two John W. Mackay, Junior, Fellowships in Electrical Engineering, of an annual value of \$600 each. These fellowships are open to all properly qualified university graduates. The object is not to facilitate ordinary engineering or scientific study, but to enable students who have completed a college course to do research work in electrical engineering, with a view to aiding the advance of the application of electricity to scientific and industrial purposes. The place of residence of those holding the fellowship is to be at the University of California. Experimental or other work, however, may be carried on outside the laboratories of the University.

The appointment to each fellowship shall be for one year, which appointment may, however, be renewed at the discretion of the Academic Senate of the University.

*The Professor F. V. Paget Scholarship* was created by the will of the late Madame Emmanuel M. Paget in memory of her husband, formerly

Professor of French in the University. The will directs that the income of the fund shall be given annually to some deserving student in the department of French of the University of California. The award will ordinarily be made to a graduate student. The value of the scholarship is approximately \$125.

*The Thérèse F. Colin European Graduate Fellowship Fund.*—This fund was established by Madame Thérèse F. Colin in December, 1905, for the maintenance of a European Graduate Fellowship in the Romanic languages for graduates of the University of California, and the income of the fund became available after the death of the founder in April, 1913. There will be no award of this fellowship for 1917-18. It is expected that the income will ultimately amount to \$600 annually.

*Lick Observatory Fellowships*, two or three in number, are usually maintained annually by the University. The appointees devote their attention to graduate study and assist in the work of the Observatory. The value of each is \$600.

*The Whiting Bequest.*—A bequest of twenty thousand dollars was made in 1895 by the will of Harold Whiting, formerly Associate Professor of Physics in the University. The principal has been increased by capitalization of unexpended income to twenty-five thousand dollars. The net income from this sum is expended under the joint direction of the President and the Professor of Physics of the University. In the years 1898 to 1902 a traveling fellowship (value \$600) was maintained from that income. Since 1902 fellowships of the value of \$600 each have been awarded, with the exception of a few years, for use at Berkeley or elsewhere. In cases of distinct merit similar awards may be made from year to year, as an encouragement to advanced study and research in physics.

*The Yale Alumni Association Fellowship.*—Beginning 1901-02, the Yale Alumni Association of California has awarded annually the sum of \$300 (to which the authorities of Yale University agree to add an amount equal to the charge for tuition there) to some graduate of the University of California or of Leland Stanford Junior University, the money to be used by the recipient in the pursuit of graduate study at Yale University. Applications for the fellowship should be addressed to Mr. Charles F. Mills, Secretary of the Northern California Yale Alumni Association, 1 Grant avenue, San Francisco.

*The Flood Fellowships in Economics.*—Two fellowships in Economics of \$500 each per year have been established from the income of the fund donated to the University by Miss Cora Jane Flood. Application forms may be obtained from the Recorder of the Faculties.

*Hooper Fellowships.*—The George Williams Hooper Foundation for Medical Research announces that two fellowships of \$600 each will be available in the Medical School for the current academic year. Applicants must have had at least one and one-half years of medical training in the University of California Medical School, or equivalent training. It is intended that the entire time of the appointee be devoted to work on a research problem or problems. Requests for more detailed information should be addressed to Director George H. Whipple, Hooper Foundation for Medical Research, San Francisco, California.

*The James M. Goewey Scholarship*, founded in January, 1904, by the family of the late James M. Goewey, yields about \$600 annually, and is awarded to a student in one of the departments of natural science. At present the awards will be limited to graduate students.

*The Frank M. Pixley Scholarships* were founded by Mrs. Amelia V. R. Pixley, who bequeathed to the University \$3563.22 as an endowment to be administered by the Regents of the University of California. It was the desire of the donor that the income from this fund should be used for the maintenance of some student in law. The income of the endowment is approximately \$150.

*University Fellowships in Pacific Coast History.*—The Order of the Native Sons of the Golden West has provided a fund for the maintenance of one or more fellowships in Pacific Coast History. Candidates must be graduates of a university and must have done at least one year of graduate work upon Pacific Coast History. They must present some written work showing knowledge and capacity for research upon some subject in the history of the Pacific Coast.

The names of the candidates for the fellowships, with their qualifications and evidence of their training for historical research in the form of written work shall be submitted by the department of history of the University of California on or about the first of May in each year to a committee chosen by the Grand Parlor of the Native Sons of the Golden West at its annual session, and the names of the candidates selected by the committee shall be submitted to the President of the University to be announced by him on Commencement Day. The holders of the fellowships may be candidates for re-election upon submitting proof of their fitness, either by thoroughness of the work done during the year of their terms or by promise for the completion of larger investigations.

*The Martin Kellogg Fellowship in Astronomy* has been endowed by Mrs. Louise W. B. Kellogg in memory of her husband, Martin Kellogg. The stipend is variable in amount and would aim to cover necessary expenses of travel and residence. The annual income is \$1200. For further information apply to the Lick Astronomical Department, Mount Hamilton, California.

*The Preston School of Industry Fellowships* have been established by the Board of Trustees of the Preston School of Industry, at Ione, California, with the approval of the State Board of Control. The fellowships are available to students for research in agriculture, law, political science, social economics, applied psychology and medicine. There are three fellowships at \$500 each, payable monthly, and maintenance, including room and board while in residence at Preston. Appointments are made in co-operation with the Superintendent of the Preston School of Industry. The duties and work required of each fellow are designated by the University and the Superintendent of the Preston School of Industry. No person under the age of 21 years may receive one of these fellowships.

*The Howison Fellowship* (not as yet available) was established by Professor and Mrs. George H. Howison in 1916. This traveling fellowship, of the value of \$1200 per annum, will be for such students in the graduate division of the University of California as shall have taken their A.B., either here or in some other university of equal rank, with honors in philosophy, and who shall have been found thoroughly grounded in mathematics, physics, chemistry, and biology, and who possess a free reading command of Greek, Latin, German, and French. The fellowship is to be held by each appointee for three years, one or more of which may be spent at some other university approved by the Mills Professor and his department colleagues of full professorial rank who shall also recommend the candidate for appointment.

#### SPECIAL LECTURESHIPS

*The Barbara Weinstock Lectureship on the Morals of Trade* was created by Mr. Harris Weinstock of Sacramento on May 14, 1902, with an endowment of \$5000. The purpose of the lectureship was stated by the founder to be the education of young men "to the belief that success in business is more profitable and more lasting if conducted upon a high ethical plane, and that true success lies in developing character, rather than in heaping up gold." The lecture does not form a part of the regular courses of instruction.

*The Charles M. Hitchcock Endowment Fund* of \$10,000 was established by Mr. Hitchcock as an endowment for "a professorship in the University of California for free lectures upon scientific and practical subjects, but not for the advantage of any religious sect, nor upon political subjects."

#### UNIVERSITY EXTENSION

The Extension Division, as at present constituted, was organized in August, 1913. Its general purpose is to provide instruction for those who cannot attend the University, and to distribute throughout the State

the knowledge that will be most valuable in increasing the industrial efficiency of the people and in promoting their enjoyment of life; in a word to extend, so far as practicable, the usefulness of the University.

The work of this Division covers two general fields of activity, instruction and public service, and is carried on through seven Bureaus. These bureaus and the kind of work in which each is engaged are shown in the following outline of the plan upon which the Division is organized.

### I. INSTRUCTION

1. The Bureau of Class Instruction organizes and conducts classes in cities and towns wherever a sufficient number of people can be secured who wish to study the same subject. Instruction is offered in the languages, literature, public speaking, mathematics, political science, business branches, economics, engineering, and other subjects.

2. The Bureau of Correspondence Instruction offers instruction by mail in the languages, in literature, music, drawing, education, political science, engineering, geography, stenography and type-writing, etc., etc. Courses may begin at any time.

3. The Bureau of Lectures provides lectures singly or in series of six to twelve for any committee, club, organization, or community in the State that will make the necessary arrangements for their delivery.

### II. PUBLIC SERVICE

1. The Bureau of Public Discussion promotes and directs interest in the study and the discussion of public questions by assisting in the organization of "Debating Clubs" and "Discussion Centers"; by suggesting subjects for the programmes of "Literary Societies"; by publishing bulletins of value to students of oral English; by co-operating with the libraries of the State in recommending material for study; and by conducting the "INTERSCHOLASTIC PUBLIC SPEAKING LEAGUE OF CALIFORNIA"—a State high school organization.

2. The Bureau of Municipal Reference is a clearing house for inquiries and information concerning municipal government and administration. It collects from books, public documents, etc., and from competent authorities in administration, finance, public health, and allied subjects, the knowledge bearing upon the solution of municipal problems, and distributes the same throughout the State. It is allied with the League of California Municipalities and in conjunction with it provides for municipal exhibits.

3. The Bureau of Information answers all inquiries, of whatever nature, addressed to it or referred for answer by the various departments of the University, or by individuals of the faculty.

4. The Bureau of Visual Instruction collects and circulates stereopticon slides, motion picture reels and exhibits. These cover practically every phase of educational work, but chief attention is given to industrial subjects. They are sent in rotation through the schools of the State and are studied by public schools as a part of the curriculum and by parents and citizens as a feature of community service.

Complete information with regard to University Extension, including methods of organizing classes and lecture centers, fees, and the granting of credit towards a university degree, will be sent on application to the University Extension Division, University of California, Berkeley.

### APPOINTMENT REGISTRY

In January, 1898, the Regents of the University established, in the President's Office, a Registry for teachers and others who desire the co-operation of the University in securing employment. The aim is to obtain complete information in regard to all University candidates for the teaching profession or for other callings. A Secretary is in charge of the lists of applicants, which include the names of many who have already won success in their professions, or in the business world. The Secretary secures evidence in regard to the scholarship, experience, and personal qualifications of each candidate, and on the basis of this information the President answers inquiries from appointing authorities.

The purpose is to secure such information as will enable the President to name the best available person for a given position. The practice of giving written recommendations to students, to be used at their own discretion, has been discontinued. Reports from instructors are filed in the President's Office. Copies of these reports will be mailed to school officers, or to professional or business men, at their request, or at the request of the student concerned. But the President reserves the right of refusing to extend the co-operation of the University to students when they apply for positions for which they are manifestly unfit. Official recommendations for positions are made only on request of those in authority. Letters requesting such recommendation should state explicitly the subjects to be taught, or the work to be done, the salary paid per year, and the time when the engagement begins. Prompt answer will be made to such letters throughout the summer vacation as well as during the university year. The Secretary will consult any member of the Faculty whose advice is especially desired. There are no fees for the services of this office.

Communications should be addressed to the Appointment Secretary, University of California, Berkeley.



**SUMMER SESSION**

The Summer Session of six weeks is designed for teachers and other persons who are unable to attend the University during the fall and spring sessions. There are at present no formal entrance requirements, except that applicants must be persons of good moral character and must be considered by the Faculty to be of sufficient maturity and intelligence to profit by attendance upon the exercises of the session. The courses of instruction are mainly of university grade, and credit toward university degrees may be given to attendants who comply with such conditions of work and examinations as may be imposed by the instructors in charge.

The tuition fee is \$15, regardless of the number of courses taken.

An Announcement of the Summer Session is issued in April of each year and may be obtained by addressing the Recorder of the Faculties, Berkeley, California.

The Summer Session of 1917 began June 25 and ended August 4.

The Summer Session of 1918 will begin June 24 and end August 3.

**LIBRARY, MUSEUMS, AND LABORATORIES**

The General Library, housed in the building made possible by the bequest of the late Charles F. Doe, now contains more than 340,000 volumes. It is constantly augmented by donations and exchange, and by large purchases of books with the income from the Michael Reese, Jane K. Sather, E. A. Denicke, Alumnus, Meyer, Jucksch, and other funds.

The extensive Bancroft collection of manuscripts and books relating to Pacific Coast history is in process of arrangement. The major portion of the manuscripts has been calendared.

The resources of the Library are supplemented by borrowings from other libraries; and, similarly, the Library lends its books, under proper regulation, to other institutions.

Several of the departments of instruction have separately kept collections of books, useful for ready reference and classroom work.

The library and reading room of the department of agriculture, situated in Agriculture Hall, receives the publications of the Experiment Stations of the United States and other countries, as well as pamphlets on agricultural subjects published by various governments and commissions. About one hundred and forty dailies, weeklies, and monthlies are regularly received.

**MUSEUMS**

In the growth of the University during recent years, the space requirements of the various departments have made it impossible to keep in one building the collections which were originally designed to serve as the basis for a University Museum. Excepting the Museum of Greek Sculpture and Anthropology and the California Museum of Vertebrate Zoology, the collections of the various departments have been distributed among the buildings in which these departments are situated. The Museum of Greek Sculpture and Anthropology and the California Museum of Vertebrate Zoology are segregated in buildings which, though temporary in character, are specially constructed for museum purposes.

*Museum of Anthropology.*—The University of California Museum of Anthropology, organized in 1901 with the establishment of a department of anthropology, through the generosity of Mrs. Phoebe A. Hearst, consists of two divisions, one in San Francisco, the other in Berkeley.

The Museum of Anthropology, San Francisco Division, was opened to public exhibition on October 4, 1911, in temporary quarters comprising

the western building at the Affiliated Colleges in San Francisco. The museum is open without charge from 10 a. m. to 5 p. m. on Sundays and holidays, and from 10 a. m. to 4 p. m. on all week days except Mondays, throughout the year.

The unit collections exhibited in the halls open to the public are those from Egypt, ancient Peru, Greece, Italy, Asia, the Philippine Islands, the other Pacific Islands, the Indians of California, Alaska, the Plains and the Southwest. Public lectures of popular character are given on every Sunday afternoon and on holidays at 3 p. m.

The Museum of Greek Sculpture and Anthropology, Berkeley Division, in the building on the campus known as the Museum, is open to the public Sunday afternoons from 1 to 5 o'clock, throughout the year. It comprises an excellent series of plaster casts of ancient Greek, Roman, and Oriental statuary; also selected exhibits of anthropological collections from ancient Peru, the Philippine Islands, New Guinea, Mexico, the California, Plains, Alaska, and Iroquois Indians, and the Eskimo.

The scope of the collections comprised in the two divisions of the museum is as follows:

The anthropology of California is fully represented on the prehistoric, recent and racial sides. The archaeological collections cover all parts of the State in some measure. They are most extensive and systematic from those regions that have proven most fertile to archaeological exploration, the Santa Barbara Archipelago and the shellmounds of San Francisco Bay. In ethnology, the three principal areas of distinctive native culture, the Northwestern, Central, and Southern, are represented about equally. The groups illustrated are the Yurok, Karok, Hupa, Tolowa, Chilula, Mad River, Nongatl, Sinkyone, Lassik, Wailaki, Kato, Wiyot, Shasta, Achomawi, Atsugewi, Klamath Lake, Modoc, Northern and Southern Yana, Maidu, Northern and Central Wintun, Yuki, Wappo, Pomo, Miwok, Yokuts, Washo, Salinan, Chumash, Northern Paiute, Mono, Tübatulabal, Panamint, Chemehuevi, Cahuilla, Agua Caliente, Luisefio, Diegueño, Mohave.

From North America other than California there are very extensive collections from the Eskimo, Athabascans, and Tlingit of Alaska, due to the generosity both of the Alaska Commercial Company and of Mrs. Phoebe A. Hearst. The Selishan tribes of Puget Sound and British Columbia; the ancient cliff and town dwellers, modern Pueblos, and other Indians of the Southwest; and the Omaha, Kiowa, Sioux, Blackfeet, and other tribes of the prairies and great plains are all represented. The archaeology of the eastern United States is illustrated by collections obtained in excavations made for the museum in Missouri and New Jersey, as well as by gifts illustrative of other localities. There are reproductions pertaining to the ancient civilization of Mexico, prehistoric

specimens from Panama, and ethnological collections from Mexico and Guatemala.

The South American section consists chiefly of collections obtained through expeditions maintained for a number of years in Peru. These collections were formed at Trujillo, Supe, Chancay, Ancon, Lima, Chincha, Ica, Nazca, Chala, and other coast points, and at Huamachuco and Cuzco in the interior, thus covering nearly the entire extent of Peru. Besides containing large series of pottery, important for the determination of the various cultures and periods of ancient Peruvian civilization, these collections are rich in works of metal, stone, and more perishable materials, as well as in somatological specimens.

The Pacific Island region is illustrated by representative specimens from most of the more important Polynesian, Micronesian, and Melanesian groups, among which are many valuable pieces. There are also special collections from British New Guinea, and from the Mohammedan, Christian and pagan populations of the Philippine Islands.

The Graeco-Roman collections comprise vases, pottery, and bronzes from all periods of Greek and Italic art; about one hundred examples of sculpture in marble, including some specimens of considerable value occupying a definite place in the history of the art of the Mediterranean peoples; ten Etruscan sarcophagi of stone; the contents of seventeen carefully excavated Etruscan graves, besides much other pottery and bronze from the surrounding districts; glass from Syria; coins; Cypriote statuettes and pottery from the earliest period on; and some representation of mosaics, painting, figurines, iron-work, etc. A smaller but carefully chosen number of facsimiles supplements these originals.

The Egyptian collection is among the most extensive in the museum and is perhaps the most valuable. It is the result of systematic excavations by the Hearst Egyptian Expedition for a number of years, and represents nearly all periods, from the earliest predynastic to the Christian. The specimens were obtained principally at Der-el-Ballas, El-ahaiwah, Nag-ed-Der, and Gizeh. This collection has already furnished the evidence for a number of new conclusions regarding the history, customs, and race of the ancient Egyptians.

From Europe the museum contains a series of original and facsimile specimens illustrating palaeolithic and neolithic man, a collection representing the life of the peasantry of Sweden a few generations ago, and a series of examples of Renaissance iron-work.

Collections in physical anthropology include over two thousand skulls together with some complete skeletons from California, the Southwest, Peru, Egypt, and other localities. There are photographs of racial types, and plaster life-masks of North American Indians.

The museum possesses nearly 2000 phonographic cylinders recording religious and other songs, instrumental music, prayers, charms, and ceremonial formulas, myths, traditions, and historical and personal narratives, mainly in the languages of the California Indians, but representing other races also; 5500 photographic negatives of anthropological subjects; 4000 lantern slides; and 12,000 mechanical tracings and graphic records of Indian speech.

*California Museum of Vertebrate Zoology.*—In March, 1908, Miss Annie M. Alexander of Oakland founded a research museum for the study of vertebrate animals and has supported it as a constituent part of the University. The objects of the museum are the collection and care of the preservable remains of vertebrate animals other than fishes, with particular view to analysis of the existing faunas of western North America.

The museum's collections have been gathered largely by trained field naturalists, organized each year into expeditions. Each expedition has studied intensively the fauna of some certain restricted area.

During the years from 1908 to 1916, inclusive, the following regions were explored. In Alaska, the Prince William Sound district, and the Sitkan district from Cross Sound to Dixon Entrance; in British Columbia, central Vancouver Island; in Nevada, the Pine Forest Mountains of Humboldt County; and in California, the Warner Mountain region, Modoc County; Trinity Mountains, Siskiyou and Trinity Counties; the San Francisco Bay region; San Joaquin Valley; Sacramento Valley; northern coast belt, from Marin to Humboldt County; a cross-section of the Sierra Nevada, through the Yosemite; a cross-section of the Sierra Nevada, through Kearsage Pass and Kings River Cañon; the extreme southern Sierra Nevada, from Walker Pass, Kern County, to Mount Whitney; Owens Valley; the Colorado River Valley, from Needles to Yuma; the Imperial Valley; the San Jacinto Mountain region; and southern San Diego County.

The effort from year to year is to plan the field work so that the results of previous exploration become more intelligible in the light of additional information. In other words, correlation is the most important consideration upon which the location of field work has been based. It is thus becoming possible to trace out the distribution of many individual species continuously, and to compare adjacent faunas with assurance of an approximate degree of accuracy. Records are also secured which show the significance of changes wrought by deforestation, afforestation, and settlement of regions, with resulting migration of faunal boundaries.

The accumulation of specimens is not the sole function of the museum. Field work is prosecuted always with a view to the gathering of just as

extended information as it is practicable to obtain concerning the distribution, habits, and economic bearing of the animals encountered. This information is filed in readily accessible form, and the specimens are catalogued and installed in convenient system for use in research.

In March, 1917, there were catalogued 25,336 mammals, 27,615 birds, and 6281 reptiles and amphibians. There are also housed in the museum private collections of birds, on deposit, numbering some 14,000 additional specimens. In mammals and birds the museum provides the most extensive collections assembled in any one institution west of Chicago.

All this material lends itself to research along both practical and purely scientific lines. In the latter, opportunity is given for investigation into the facts and theories of isolation, adaptivity, meaning of coloration, in fact, general bionomics as illustrated from field studies as compared with or supplemental to, experimentation. The nature of the preserved specimens also gives abundant basis for systematic and variational studies, and for work in comparative osteology.

*Mathematical Models.*—The department of mathematics has a collection of about three hundred models of mathematical curves and surfaces in plaster, thread, wire, wood, and celluloid, including the Brill collection and the Schroeder models of descriptive geometry.

*Botany.*—The botanical collections of the University contain the following:

I. *A Phaenogamic Herbarium* of over one hundred and sixty thousand sheets of mounted specimens and fully as much unmounted material which is gradually being incorporated.

The nucleus of this herbarium was founded by a set of the plants collected on the State Geological Survey, from 1860 to 1867, augmented by a set of duplicates of this collection recently received from the herbarium of Professor W. H. Brewer, of Yale University. To this have been added: (1) a number of important herbaria and many smaller collections donated by alumni and other friends of the University, (2) specimens collected by members of the Botanical Department, amounting to several thousand sheets each year, and (3) plants received as a result of exchanges carried on with other institutions. While the aim has been to bring together plants from all parts of the world, particular attention has been given to the Pacific Coast flora, which is specially well represented in this herbarium.

Furthermore, there has been acquired by gift during the last twenty years a large number of important collections, among them the herbaria of Mr. and Mrs. T. S. Brandegees, of Mrs. R. W. Summers (presented by Regent Phoebe A. Hearst), of Professor W. C. Blasdale, of Professor E.

R. Drew, of Mr. V. K. Chesnut, of Mr. C. F. Sonne, and many thousands of specimens from the resident collectors of California, Oregon, and Washington.

II. *A Cryptogamic Herbarium*, containing thirty thousand sheets, particularly illustrating the Californian species. The collection of algae and the considerable collection of other groups of cryptogams of Professor Setchell have been incorporated with the University collections and are now available to students in these lines.

III. *A Botanical Museum*, containing at present a valuable collection of native woods, fibers, barks, cones, acorns, and fruits, besides a large number of drugs and an economic collection. This material is available for class and research work, and is constantly being added to by donations from all parts of the world.

*Zoology*.—The Department of Zoology has an excellent collection of both invertebrates and vertebrates, which is being constantly augmented. The collections of marine invertebrates from the Pacific Coast, especially of the groups of marine protozoa, coelenterata, bryozoa, echinodermata, annelida, mollusca, crustacea, and tunicata, are large and are being rapidly increased. In entomology the Agricultural Department possesses a collection of over two thousand well-determined species of beetles and a large collection of lepidoptera. The collections of amphibia, reptilia, birds, and mammalia are fairly representative of the West North American fauna in these groups. A special teaching collection of the local bird fauna has been recently secured. The collection of vertebrate skeletons has been greatly enriched by additions selected with the view to supplement the forms already possessed. The collection is fairly complete for the purposes of general instruction in comparative anatomy.

The California Museum of Vertebrate Zoology, established and maintained by Miss Annie M. Alexander, gives the University by far the most complete collection of the West American land vertebrate fauna that has hitherto been brought together for purposes of research. The work is being pushed with vigor both in the field and in the museum.

*Palaeontology*.—The collections of the Geological Survey, which have become the property of the University, contain types and representative specimens of a large percentage of all the known Californian invertebrate fossils. In addition to this, the palaeontology of the State is illustrated by a collection of splendidly preserved fossils, presented to the University by Hon. D. O. Mills.

A large collection represents the development of invertebrate life in North American formations east of the Mississippi Valley.

As the result of the work of numerous palaeontologic expeditions sent out by friends of the University, there has been brought together a large collection of vertebrate fossils representing fully the extinct faunas of this coast.

A number of valuable invertebrate and vertebrate fossils have been donated to the University during the last year.

The *Museum of Geology and Mineralogy* comprises an extensive suite of minerals and ores illustrating the chief phenomena of crystals and of economic deposits. There are, besides, many crystallographic models, and relief maps geologically colored. There is a similarly extensive suite of petrological specimens affording a fairly good illustration of the subject of petrology; and many specimens illustrative of the more interesting features of structural geology.

*Agriculture.*—A general museum collection is installed in the main corridor of Agriculture Hall. This includes material representative of horticulture, viticulture, citriculture, plant pathology, entomology, parasitology, veterinary science, genetics, and agronomy. Other agricultural departments will be represented as materials become available.

A collection of more than two thousand specimens of the soils of this State, to which frequent additions are made, fully illustrates the character of the several agricultural regions of California. This material forms the basis for continuous investigations in the agricultural laboratory. It includes also a large number of complete vertical sections of typical soils of the State taken to depths of ten and twelve feet, each foot being separately shown. These are installed in Budd Hall.

By Act of Legislature the College of Agriculture received on January 1, 1896, the collection of viticultural and enological apparatus and the library gathered during fourteen or fifteen years by the State Viticultural Commission.

*Donations* to the museums of the University are gratefully received. Special instructions for collecting and forwarding any particular kind of material will be furnished to any who may desire them.

## LABORATORIES

*Psychological Laboratory.*—The whole of the second and third floors of the Philosophy Building is devoted to the psychological laboratory. Besides a full equipment for class instruction and for demonstrations in connection with lectures, as well as an extensive collection of the printed forms and other materials for use in conducting mental tests with children and adults, the laboratory is provided with a large num-



ber of special instruments for investigations in all the principal lines of psychological experiment. There is also an ample collection of such auxiliary instruments as are most frequently required in setting up special apparatus for research, and there is a shop equipped for carpenter work. In addition to the main laboratory room there are several rooms suitable for research. All the rooms are connected by switchboard with high and low potential electric current, and are served with alternating lighting current and gas.

The equipment includes the more important psychological instruments, of late pattern, from the best makers. There is also a good collection of models, casts, and charts, of the brain and the sense organs, and a full assortment of materials for demonstration and experiment.

*The Physical Laboratories* are located in South Hall. There are set apart rooms for elementary and for advanced work, for photometry, for spectroscopic research with a Rowland grating, for measurements in heat and in electricity, and for a workshop. The apparatus includes many instruments and standards for fundamental measurements from makers of the best reputation, and the laboratory employs two competent mechanics, who are continually increasing the equipment from original designs. It offers good facilities to students who wish to pursue the study of physics beyond the limits of the prescribed courses, whether for the sake of physics itself, or in connection with other subjects, like electrical engineering, astrophysics, the practical uses of polarized light, and physical chemistry. Such students may make special arrangements for using the laboratory.

*The Students' Observatory* (Berkeley Astronomical Department).—The equipment of the observatory consists of the following instruments: An eight-inch reflector, gift of the Hon. Wm. M. Pierson, suitable for visual and photographic observations; a six-inch refractor with position micrometer; a five-inch refractor, with position micrometer, gift of Mr. and Mrs. Herman Oelrichs; a six-inch photographic telescope and a five-inch photographic telescope with a three-inch guiding telescope, all equatorially mounted with driving clocks; a three and one-half inch Bamberg prismatic transit, with transit micrometer; a three-inch Davidson combination transit-and-zenith telescope; a two-inch astronomical transit; a two-inch altazimuth instrument; surveyors' transits with solar attachment; spectroscopes; a Pickering photometer; a Repsold measuring engine for measuring astronomical photographs; a Gaertner microscope for measuring spectrograms; electro-chronographs; a Harkness spherometer; a level-trier; sextants; chronometers; a Rieffler sidereal clock; a Howard M. T. clock; all necessary electric connections for recording time and determining longitude by the telegraphic method.

Visitors are received at the Students' Observatory on the first Saturday of each month, in the evening from eight to ten o'clock.

*The Lick Observatory.*—For circular of information concerning this department of the University, address the Recorder of the Faculties, Berkeley, California, or the Director of the Lick Observatory, Mount Hamilton, California.

*Chemical Laboratories.*—These laboratories are housed in a group of buildings, of which one is devoted entirely to the first-year course in chemistry. It contains desks for one thousand students and the necessary storage, preparation and distributing rooms.

The old chemistry building includes laboratories for undergraduate and graduate work in analytical and organic chemistry. It contains a liquid air plant, machine shop, a glass-blower's room and collections of rare chemical compounds and of exhibits illustrating manufacturing processes.

The new Gilman Hall, a three-story concrete building, contains the departmental library and administrative offices, and laboratories for advanced work in physical chemistry, electrochemistry, and chemical technology. Provision is made in this building for extensive research in industrial, physical and inorganic chemistry.

*A Botanical Garden* furnishes abundant material for the classes in botany and affords favorable opportunities for original studies and experimentation. About three and one-half acres are under cultivation. Over two thousand species of plants, one-half of these Californian species, are being grown, and this number is being constantly increased through the donations of friends and the efforts of the various members of the Botanical Department.

*The Botanical Laboratories* are well lighted and equipped with the necessary instruments and reagents for work in morphology, histology and physiology both of flowering and flowerless plants. Special facilities are provided for students desiring to pursue research work.

The main *Conservatory* and greenhouses are situated on the slope south of the Students' Observatory, facing the Botanical Gardens. This glass area is composed of five separate units that are used for experimental and class work. Recently two new greenhouses, each 28 feet 8 inches by 50 feet, composed of four separate units, have been built directly east of Agriculture Hall, to care for investigational work in genetics, citriculture, viticulture, agronomy and plant pathology.

*The Meteorological Station* is maintained by the department of geography. Regular daily observations of the weather elements are taken and recorded for the Monthly Meteorological Synopsis published by the

University and for the use of the climatological division of the United States Weather Bureau. The instruments and records afford facilities for instruction and investigation in meteorology and climatology.

*The Zoological Laboratories* occupy the whole of the first and second floors and part of the third of East Hall. The laboratories, both for elementary and advanced work in general morphology, microscopical anatomy, embryology and experimental zoology are large and well lighted.

Special facilities are offered to students who wish to pursue their studies beyond the limits of the undergraduate courses.

By provision of the Regents, the work of the department may be transferred to the seaside during the summer vacation, it being the purpose of the University to make use of the exceptional advantages in this field offered by the California coast.

*The Rudolph Spreckels Physiological Laboratory.*—The building was erected for the University by Mr. Rudolph Spreckels of San Francisco. In addition to the Department of Physiology, the Department of Biochemistry is also accommodated in this building. The east wing is devoted to undergraduate instruction in physiology; the west wing to physiological chemistry. Facilities are provided for work in special physiology, for general physiology and experimental biology.

The Department Library, situated in the central part of the building, contains complete sets of all the important physiological journals and the more important monographs on physiological and related subjects.

*The Mineralogical Laboratory* is provided with a large collection of minerals, and is well equipped with the necessary apparatus for research work in crystallography both as regards goniometric work and the determination of physical constants.

*The Petrographical Laboratory* contains a large collection of rocks and several thousand thin sections. It is supplied with all necessary apparatus for instruction in petrography and for detailed research.

*Mechanical and Electrical Laboratories.*—The Mechanical and Electrical laboratories of the University of California have been especially designed to familiarize the student with machines, their operation, care, and adjustment; to train the student to care for instruments, calibrate them, and know of their accuracy and limitations; to fix the conceptions of the classroom by making these real and by illustrating the application of theory to practice and the limitations of the application; to train the student in the methods of commercial testing of machinery and engineering research, concluding with the making of reports presenting the results and conclusions in proper form; and to develop the ability in the student to ultimately make engineering investigations and reports.

*Electrical Laboratories.*—The Dynamo Laboratory, in which the power units are located as well as the routine testing apparatus, contains a full complement of alternating and direct current machines and rotary converters, representing all commercial types.

Care has been taken to so arrange the machines that they may be readily mounted on cast iron bed-plates situated near suitable terminal wall panels. These panels are connected with the main laboratory testing boards and permit of the utmost flexibility in making connections between apparatus under test and any source of power or suitable load.

Transformer experiments are made on a number of units, of suitable capacity, containing sufficient small percentage taps for making any single or polyphase combination on both primary or secondary, and for obtaining special voltage or current combinations. In case heavy and sustained load tests are desirable, a number of water rheostats of large capacity, with their terminals permanently connected to a test board, are available.

The Instrument Calibration Room contains a full equipment of both alternating and direct current instruments, comprising voltmeters, ammeters, wattmeters, power-factor meters, dynamometers, Kelvin balances, universal rheostats, etc. A heavy table supported by brick piers is used for secondary meter calibration.

The Photometer Room contains a well-equipped photometer of modern design with suitable terminal board for obtaining desired voltages.

A well equipped modern oscillograph, arranged for visual and photographic operation, is available. A wall panel, having a large number of circuits leading to the main test boards, renders this equipment suitable for an oscillographic study of any apparatus in the laboratories.

The Standardization Laboratory contains Weston Laboratory standard ammeters and voltmeters, Kelvin Type precision ammeters, voltmeters and wattmeters, standard potential and current transformers, potentiometers, galvanometers, bridges, standard cells, resistances, inductances and capacities.

There is located in this laboratory a switchboard controlling a 64-cell storage battery of ample capacity, suitable for any series or parallel combination, and a small 100-cell storage battery used principally for potential work.

A High Frequency Laboratory has been fully equipped with hot wire type meters, electrostatic voltmeters, high frequency galvanometers, condensers, standard wave meters and other equipment suitable for measuring high frequency and high potential currents. Wireless sending and receiving apparatus has been installed as typifying an application of this important study.

In all of the electrical laboratory work, special emphasis is laid upon the development of the student's personal initiative and self-reliance in overcoming difficulties commonly met in practice.

*Steam and Gas Power Laboratories.*—The boiler laboratory is equipped with a 100-H.P. Babcock and Wilcox boiler, arranged for burning crude petroleum. All necessary oil pumps, tanks, meters, and auxiliaries for the storage, pumping, measuring and regulating of oil, are provided, as well as feed water heater, purifier and boiler feed pump. A small vertical firetube boiler, designed for pressures up to 200 lbs., is connected to a vertical steam engine, automatic type, of suitable horsepower. All steam lines are provided with the proper fittings and connections for measurement of temperature and quality of steam. Flue gas analysis apparatus and pyrometers for testing of furnace operation are available, as well as all small apparatus necessary for conducting complete and detailed boiler efficiency and economy tests.

The steam power laboratory, adjoining the boiler room, is equipped with a 25-H.P. Ideal steam engine operating either condensing or non-condensing; a condenser, with water circulating pump and air pump, capable of handling the steam from this engine, or steam from any tests of nozzles or orifice flows; a steam turbine of the Curtis type, with direct connected electrical generator and completely equipped for tests; a 75-H.P. marine type compound engine, with necessary auxiliary pumps and integral condenser; and two engines, one a simple and the other a Stevenson valve gear compound, which latter are reserved for valve gear study and valve setting, and connected to air pressure as the working fluid.

The gas power laboratory equipment includes a Westinghouse vertical gas engine equipped to operate on illuminating gas, gasoline or petroleum distillates; a two-cylinder Standard type of marine internal combustion engine, using gasoline, kerosene or distillate as fuel; a 15 H.P. semi-Diesel type of engine, completely equipped with testing auxiliaries; and a six-cylinder automobile engine of the Continental type, with water brake for absorbing the power during tests.

The equipment of these laboratories also includes an Ingersoll-Rand two-stage air compressor, operating up to 100 pounds pressure and belted to a motor as a prime mover. Suitable measuring devices, special to this equipment, have been installed.

All necessary small apparatus for any form of test is at hand; a complete assortment of steam engine and gas engine indicators, manograph, friction brakes, steam calorimeter, pyrometers, anemometers, gas analysis apparatus, water weighers; gas, steam and water meters, and the various calibration devices necessary for accurate results. Complete calibrating equipments for the calibration of test gages, indicators, and calorimeters are at hand.

*Gas Laboratory.*—Through the generosity of the Pacific Coast Gas Association, a gas laboratory has been fully equipped with facilities for making any of the varied tests or experiments that might become necessary in a gas manufacturing plant.

The photometric portion consists of a standard 100-inch bar photometer; comparison and contrast sights of the screen and Lummer-Brodhun types; Pentane, Heffner, Edgerton and Methven standards, as well as candle and electrical standards and all necessary incidental apparatus.

The calorimetric portion is equipped with a complete Sargent-Junkers gas calorimeter of latest type, as well as Parr and oxygen bomb fuel calorimeters, and for special work a gold-lined Emerson bomb is available. The laboratory is supplied with standardized thermometers having Bureau of Standards or Reinehnsanstalt calibrations and the direct reading or differential types are at hand when necessary.

The gas analysis portion is unusually complete, containing several sets of the Hempel apparatus of various types as well as Orsat sets. There is also available a Gas Referees Sulphur apparatus, Specific Gravity apparatus, Tutweiler's Hydrogen Sulphide apparatus, etc.

The laboratory is equipped for other routine or incidental tests such as sulphur analysis of purifying material, ammonia or naphthaline analysis of illuminating gas, tars and liquids, carbon or water contents of tar and oils; fractional distillations, etc.

*Hydraulic Laboratory.*—The general purpose of the Hydraulic Laboratory is to fix in the mind of the student fundamental principles and at the same time to familiarize him with the different types of hydraulic machinery. He is required to operate water-measuring devices, turbines, pumps, power absorbers and transmitters of different types in strict accordance with carefully prepared instructions, and to observe the general phenomena as well as to take readings of the different instruments. During the course of this laboratory work it is necessary for him to start and stop his machinery, to watch it during operation, to overcome unforeseen difficulties and throughout to work with care and precision.

In addition to this side of the work, reports are prepared, presenting descriptions, tables of computations, curves characteristic of tests, etc.

The laboratory equipment includes screw, plunger, and centrifugal pumps, weirs, measuring tanks, turbines, meters, and dynamometers, besides many small pieces of apparatus and test instruments.

In the selection of the equipment and arrangement of the laboratory consideration has been given to the importance of accurate water measurements and the necessity of maintaining the conditions uniform. For water measurements there is a set of four concrete tanks 12 feet in depth

and covering a floor space of about 780 square feet. These are equipped with hook gauges reading to one-tenth of an inch. Small quantities of water are weighed while larger quantities are measured either in tanks, by weirs, or through orifices.

For maintaining a constant head up to 40 feet, a standpipe is used; beyond this to 300 feet head, a 6-stage centrifugal pump driven by a 50 horse-power 4000-volt induction motor is available.

The use of the laboratory is not limited to those taking the regular laboratory work, but is at the disposal of students doing thesis work in relation to laws of flowing water, its measurement, behavior under different conditions, or application to the generation of power and irrigation.

*Mechanical Drafting and Designing Rooms.*—The Mechanical Drafting rooms are spacious and well-lighted. Each table is arranged to accommodate two persons and is provided with eight lockers for instruments, etc., and the same number of drawing boards. The intention is to conduct the work as nearly as possible along the lines of a commercial drafting room, to the end that the student may become familiar with both the principles involved and the methods applied in practical work in the modern establishment.

*Shops.*—The shops are divided into two main sub-divisions, namely the carpentry and pattern shop, and the machine shop. In the former is to be found a complete line of woodworking tools, saws, lathes, planers, and other necessary equipment. The equipment, however, is laid out not to teach the student to be a skilled pattern-maker or a carpenter, but rather to familiarize him with the principles involved in modern practice.

In a similar manner the machine shop is fully equipped with engine lathes, planers, shapers, drills and other devices with a special arrangement looking toward the emphasis of the principles involved in the modern machine shop. To this end the work both in the wood shop and the machine shop is supplemented by lectures.

*Civil Engineering Equipment.*—The department has an excellent assortment of models and specimens of trade products. It has a museum of engineering materials and apparatus, also a department library containing engineering reports and specifications of actual work, trade catalogues, and a large assortment of photographs and blue prints of existing European and American structures. These collections may be consulted by students and instructors. They are also drawn upon for illustration in the classroom. A collection of photographic lantern slides illustrating engineering problems and structures is in use by the department and represents the fields of structural engineering (including foundations, masonry structures, testing of materials, etc.), railroad, municipal, sanitary, highway, and irrigation engineering.

For purposes of instruction in the regular session at Berkeley and at the Summer School of Surveying held near Santa Cruz, the department is well equipped with surveying and geodetic instruments. It has also a collection of drawing and computing instruments such as planimeters, specialized slide rules and railroad curves, for the use of upper division students.

*Civil Engineering Laboratory.*—The testing laboratory is fitted with apparatus to determine the elasticity and resistance of the materials used in engineering construction and for the inspection of Portland cement, road oil and asphaltic products. Testing machines of large capacity are available for practical tests of beams and columns. Facilities are offered for original investigation of the physical properties of the materials of engineering. The laboratory is provided with a well-equipped machine shop for shaping test specimens of metal or wood and for the manufacture of special apparatus.

The sanitary and municipal laboratories of the department afford facilities for routine and research work on problems relating to the determination of chemical, bacteriological and physical properties of water, sewage, air, municipal refuse. Apparatus is available for special studies of rainfall rates and run-off in streams and sewers. Practical problems in hydraulics, water and sewage purification, municipal refuse disposal and ventilation can be studied either in the laboratories or elsewhere with the use of the laboratory equipment.

*The Hearst Memorial Mining Building*, the gift of Mrs. Phoebe A. Hearst, is occupied by the Department of Mining and Metallurgy.

Mining laboratories are suitably equipped for practical instruction in air compression, ventilation, drainage, use of explosives, breaking ground, operation of machine drills, support of excavations, mine rescue, underground surveying, magnetic surveying, sampling, tool sharpening, etc.

The Lawson Adit, now 200 feet long, offers exceptional opportunity for students to supplement lectures with actual practice underground. The portal is but a few steps from the northeast corner of the building, and is being driven into the Berkeley Hills by the students as part of their college work.

The compressor room contains a Sullivan two-stage air compressor, capacity 300 cubic feet per minute at 100 pounds, belt-driven from an electric motor; a Laidlaw-Dunn-Gordon compound condensing steam two-stage air compressor, capacity 300 cubic feet per minute at 100 pounds; a Laidlaw-Dunn-Gordon electric belt-driven single-stage air compressor, capacity forty cubic feet at 100 pounds pressure. Machine drills of many types, including piston, water-Leyner, Sullivan jackhammer and stopers



are provided. In the forgeroom are eighteen power forges with anvils, a Sullivan drill sharpener and an assortment of drill steel and sharpening tools.

On the balcony of the third floor many exceptional mine models have been placed. They serve to illustrate a number of points in connection with mining law.

As part of the generous donation of Mr. F. W. Bradley to the equipment of the College of Mining, nine specially designed oak show cases have recently been added. They are being filled with typical ores so that students may become familiar with the appearance and physical characteristics of ores as distinct from mineral specimens.

In the assaying laboratories all types of furnaces are represented, including sixteen coke muffle furnaces, sixteen coke fusion, six gas muffle, three oil muffle, and two gas melting furnaces. A Case three-muffle oil-fired furnace, equipped with direct-driven motor blower has recently been installed. A special laboratory is being fitted up for instruction in wet assaying. Metallurgical balances and all equipment necessary for assaying and simple metallurgical tests are provided. In the metallographic laboratory, where instruction is given in the microscopic examination of iron, steel, and opaques, polishing machines and accessories, a number of microscopes and a micro-photographic outfit are suitably arranged.

In the smelting room a 20-inch round steel water-jacketed blast furnace of the Allis-Chalmers type, equipped with a 5-H.P. motor-driven Connorsville blower of 3.3 cubic feet displacement has been added, together with slag pots, molds, etc., constituting a working unit for smelting practice.

In the ore-dressing department, typical machines for coarse and fine crushing, classification of products, stamp battery practice and concentration occupy four large rooms. Concentrating tables of various types and standard design, properly placed in the flow-sheet, can be used for tests on a working scale on various ores. A Deister No. 5 slimer and a Deister-Overstrom concentrator table have recently been donated. Jigs, classifiers, a ball mill, filters, and other devices lend themselves to an understanding of the principles of ore dressing. For experimentation in flotation, a Case flotation machine, operated by induction motor, has been purchased. Additions to the flotation laboratory are contemplated. Apparatus for investigative work on a laboratory scale in the hydro-metallurgy of precious and base metals is provided. A small electrostatic separator with inductive generator has been remodelled for experimental work.

A petroleum laboratory is provided for students specializing in petroleum engineering. This laboratory is equipped with the ordinary oil-testing devices and is intended to supply all of the necessary facilities for students undertaking thesis and research work in this subject. A model oil-well rig

and derrick built to one-quarter actual size, in connection with a pumping column sixty feet in height, gives opportunity for investigation of problems in the pumping of oil by both the oil-well displacement pump and the air-lift. Two twenty-five barrel oil tanks of different types are provided for practice in gauging and sampling. A duplex plunger pump and pipelines of various sizes in connection with an oil steam-heating tank, give opportunity for experimental work on the flow of oil through pipes. Various types of dehydrating equipment suitable for operation on a small scale are also provided.

Well-equipped machine shops suitable for general repairs, wood-working and pipe-fitting shops are provided; the mechanical equipment of the building is cared for by skilled mechanics.

A suite of rooms on the second floor is given up to the Government Experiment Station of the United States Bureau of Mines. Here research work in economic problems of mining and metallurgy is conducted under the direction of Dr. L. H. Duschak. By special arrangement, advanced engineering students of the College of Mining may collaborate in these important fields of investigation.

For mechanical drawing, mine mapping and the compilation of engineering data there are well lighted, properly furnished rooms on the main floor. Two photographic dark rooms and a blue-print room equipped with a No. 2 Photostat, electric arc-light blue-printing machine and all accessories are included in this department.

In the basement, two large, well-lighted, airy, steam-heated change rooms with shower baths, wash basins, steel lockers and all conveniences are provided for the use of students in the College of Mining.

In addition to three excellent lecture rooms, there is a well stocked and catalogued departmental library, and a commodious recreation room given up to the Mining Association of the University of California.

*The Laboratories of Soil and Cereal Investigations* are located in Budd Hall; those of horticulture, viticulture, entomology, parasitology, plant pathology and genetics are in the new Agriculture Hall, while those of enology, zymology, veterinary science, insecticides, agricultural chemistry, fertilizer control and the State Pure Food Laboratories are in adjoining structures.

A *special laboratory* is devoted to investigations and instruction in the physics and chemistry of soils.

*The Laboratory of Agricultural Chemistry* is devoted primarily to the prosecution of chemical researches in relation to general agriculture, such as the chemical examination of waters, foods, agricultural products, etc., and the determination of technical questions relating to agricultural processes or manufactures. The results of this work are reported to the

persons interested; so far as they are of general interest they are published currently in the form of bulletins. Laboratory instruction has been provided by desk room in the laboratories for twenty-five advanced students (i.e., those who have taken silicate analysis in the chemistry department) and for special students for work in agricultural analysis.

*The Fertilizer Control Laboratory*, for the analysis of commercial fertilizers, established by act of the Legislature, occupies a new building planned and constructed especially for its use.

*The Cereal Laboratory* is equipped for work entrusted to the Experiment Station by the Governor of California under the law of 1905, and is associated with field work at cereal stations in different parts of the State. The laboratory operations consist of selection and analysis of cereals, and analysis of soils and fertilizers used in their production; also baking tests to determine commercial value and suitability of the flours secured from the varieties included in field and milling experiments.

*Sugar-House Practice* is maintained by facilities for practical instruction in sugar-house control, in which the student receives practice in the analysis of sugar-house products.

*The Citriculture and Viticulture Laboratory* is equipped for instruction. A large room in Agriculture Hall is furnished with microscopes, charts and collections for the use of students.

*The Enological and Zymological Laboratories* occupy a room in the Fertilizer Control Building and are equipped for the investigation of problems in wine making and related industries. They have also accommodations for a limited number of students.

*Entomological Laboratories.*—The *elementary laboratory* is equipped with the usual apparatus, such as microscopes, microtomes, breeding cages, etc., and the *research laboratories* have been well equipped for many lines of investigation. The Insectary, located near Agriculture Hall, has a number of rooms, each adapted to some particular phase of entomology and its application, e.g., an apiary with workshop for the study of bees, animal compartments with operating room for experimental work in parasitology, hot and cold rooms for the study of life histories of insects, and an aquarium for observations of aquatic insects.

*Bacteriology and Veterinary Science.*—The laboratories for instruction and investigation in bacteriology and for the study of diseases of live stock are accommodated in separate structures.

*Plant Pathology.*—Facilities for laboratory instruction and investigation in plant diseases are provided in Agriculture Hall, where the necessary equipment is available for this purpose. In addition, advanced students are permitted to study at the Southern California Plant Disease Laboratory at Whittier.

*The University Dairy.*—The hill lands of the University at Berkeley are used for the maintenance of a dairy herd and are furnished with barns, corrals, and a milk house with good arrangements for sanitary milk handling, the product, certified milk, being sold to local consumers. The operation of the dairy serves a good instructional purpose.

*The University Farm.*—The University Farm, purchased in accordance with a California statute of 1905, comprises 780 acres of first-class valley land under irrigation at Davis, Yolo County. It is provided with buildings for instruction in practical agriculture and horticulture, including a commercial creamery, stock pavilion, horticultural building, dairy barn, cereal building, mechanical shops, poultry building, classroom building, and three dormitory buildings and dining hall. The University Farm is both for experimental and instructional uses. Instruction is provided in short courses for adults, secondary instruction for youth, and practical instruction for University students. Full information concerning the farm and its uses can be had by applying for special publications to the Director of the Agricultural Experiment Station.

*The Experiment Station and Sub-Stations* of the College of Agriculture make provision for systematic experimentation in the culture of the various farm products of California. There are at present eight stations at which this work is prosecuted.

The *Central Station* at Berkeley, from which all work connected with the various sub-stations is directed, was organized in the year 1875.

The *M. Theo. Kearney Ranch* at Fresno is also used in part for experimental cultures of cereals, vines, and other crops.

The *Plant Disease Laboratory and Sub-Station* at Whittier is devoted to research and experiment in the nature and control of plant diseases and in the culture of fruits and vegetables. This sub-station was provided by the Legislature in 1905. A building for laboratory and office purposes was completed in 1907.

The *Citrus Experiment Station and Graduate School of Tropical Agriculture* at Riverside are devoted to experimental and variety cultures of various species and varieties of the citrus group of plants, and new buildings now being erected will be used for laboratory and office purposes.

The *Imperial Valley Sub-Station* near El Centro is used for experimental cultures of interest in the region concerned.

Two *Forestry Stations*, one at Santa Monica, Los Angeles County, the other near Chico, Butte County, are used for experimental growing of trees likely to be of practical value in this State. The management of these stations was transferred to the University by the Legislature in 1893.

*Co-operative Experiments.*—In addition to work at formal establishments the divisions of the experiment stations use private lands in co-operative experiments of various kinds for which individuals or communities provide for local expenditures.

*Experiment Station Publications.*—To obtain a list of available publications apply to the Director for the latest bulletin which contains the list desired.

### HARMON GYMNASIUM

The Gymnasium, presented to the University by the late A. K. P. Harmon, is well equipped, and provides all the students with opportunities for physical education. Besides the main hall, boxing room, wrestling room, fencing room, indoor golf equipment, and athletic quarters, there are one hundred and sixty-five shower baths and two thousand steel lockers.

The exercises in the gymnasium are conducted systematically under the supervision of the staff of instruction.

The open-air swimming pool in Strawberry Cañon affords an opportunity for water sports. This pool is 232 feet long, 76 feet wide, and 10 feet deep in the deepest parts, holds a half-million gallons of water, and by a constant flow of filtered water is kept in admirable condition.

Two new baseball diamonds, a regulation soccer field, two outdoor basket-ball courts, a series of volley-ball courts, and a series of six hand-ball courts will be available at the new recreation center during the year 1917-18.

### HEARST HALL

Hearst Hall was given to the University by Mrs. Phoebe A. Hearst, to be used as a women's gymnasium. The lower hall is a general gathering place for the women of the University. The upper hall, 60 by 90 feet, is a well-equipped gymnasium.

The building also contains a corrective gymnasium, adequate dressing room facilities, 287 shower baths supplied with hot and cold water, and 1840 lockers.

Hearst Hall Annex, built in 1914, is a gymnasium 80 by 80 feet.

In addition, the following facilities are available for the activities of the Department of Physical Education for Women at Hearst Hall: an outdoor gymnasium 60 by 75 feet, an athletic field equipped for outdoor sports and team games, and an open-air swimming pool 45 by 75 feet.

**INFIRMARY**

In return for the Infirmary fee, each student is entitled to consultation, and medical and hospital care at the Infirmary, on the campus. The daily average of dispensary consultations and treatments exceeds a hundred and fifty. Full hospital care is given in case of serious illness. There is no charge, beyond the Infirmary fee, for ordinary medical or hospital service; but if a special nurse be required, the cost must be borne by the patient. A small hourly charge is made for dental service.

## Summary of Students, 1916-17

## SUMMARY OF STUDENTS, 1916-17

NOTE.—In the columns showing the number of students, the upper left-hand figures refer to men, the lower to women; the figures on the right side are totals.

		ACADEMIC COLLEGES							
		Letters and Science		Engineering and Chemistry		Agriculture		Commerce	Totals
Graduate		318	843	45	50	45	17	62	414
		525		5				1	548
								7	962
Undergraduate		1,586	3,950	753	759	532	14	546	3,234
		2,364		6				27	2,411
								390	5,645
Totals		1,904	4,793	798	809	577	31	608	3,648
		2,889		11				28	2,959
								397	6,607

PROFESSIONAL COLLEGES AND SCHOOLS									
Medical School	School of Jurisprudence	School of Architecture	Hastings College of the Law	College of Dentistry	College of Pharmacy	Los Angeles Medical Dept.	Totals		
112	155	44	91	170	89	46	707		
14	11	166	12	56	8	99	5	175	3
								92	2
								48	55
								762	
Summer Session, 1916									3,975
Total students in the University, duplicate registrations deducted									10,309

NOTE.—For more detailed statistical statement concerning officers and students, see separate leaflet, to be obtained from the Recorder of the Faculties.

## SUMMARY OF OFFICERS, 1916-17

	Regents of the University	Administrative Officers and their Assistants	Directors, Professors and Instructors	Departmental Assistants	Astron- omers	Physicians and Nurses	Fellows	Totals
Administration .....	22	85	.....	.....	.....	.....	.....	107
Instruction and Research:								
Academic Colleges .....	....	18	319	260	....	19	24	640
University Farm .....	....	4	29	23	....	....	....	56
Lick Observatory .....	....	1	.....	6	7	....	1	15
In the Colleges in San Francisco:								
California School of Fine Arts .....	....	1	13	.....	....	....	....	14
Hastings College of the Law .....	....	1	8	.....	....	....	....	9
Medical School .....	....	9	80	84	....	3	1	177
Hooper Foundation .....	....	1	7	8	....	....	2	18
College of Dentistry .....	....	....	29	9	....	....	....	38
Calif. College of Pharmacy .....	....	2	6	1	....	....	....	9
Scripps Institution for Biol. Research at La Jolla .....	....	4	1	13	....	....	....	18
Extension Division:								
General Extension .....	....	3	6	15	....	....	....	24
Agricultural Extension .....	....	3	29	25	....	....	....	57
Totals .....	22	132	527	444	7	22	28	1,182
Grand Total: duplicates (82) deducted .....								1,100

NOTE.—For more detailed statistical statement concerning officers and students, see separate leaflet to be obtained from the Recorder of the Faculties.



## INDEX

- A. Subject, 71, 112.  
 Absence, leave of, 148.  
 Academic Senate, 14, 20, 58.  
 Accredited schools, admission from, 100.  
   list of, 101.  
 Administration of the University, 53.  
 Administrative officers, 10.  
 Admission, from accredited schools, 100.  
   from normal schools, 108.  
   from Oriental schools, 109.  
   from secondary schools outside of California, 108.  
   methods of, 98.  
   on teachers' diplomas, 108.  
   regulations concerning, 141.  
   to advanced standing, 109.  
   to graduate courses, 110.  
 Admission requirements, 57.  
 Advanced standing, 109.  
 Agricultural collections, 180.  
 Agricultural laboratory, 190.  
 Agricultural theses, 149.  
 Agriculture, curriculum of the college of, 122.  
   for admission, 91.  
 Albert Bonnhelm scholarships, 164.  
 Albert Sydney Johnston scholarship, 163.  
 Algebra, for admission, 74.  
 Anthropological museum, 174.  
 Applied art, for admission, 89.  
 Appointment registry, 172.  
 Appointment secretary, 155.  
 Archaeological collections, 175.  
 Architecture, curriculum of the school of, 116, 138.  
 Art, for admission, 89.  
 Associated students, 154.  
 Athletics, regulations concerning, 149.  
 At large, students, 70.  
 Authority of instructors, 144.  
 B. Subject, 71, 112.  
 Bachelor's degrees, requirements for, 132.  
 Bennett prize, 159.  
 Bernard Nathan scholarship, 164.  
 Board and lodging, 158.  
 Bonnhelm scholarships, 164.  
 Bookkeeping, for admission, 96.  
 Books and stationery, 154.  
 Botanical collection, 178, 182.  
 Botany, for admission, 79.  
 Bryce historical essay prize, 158.  
 Calendar, 5.  
 California College of Pharmacy, 13, 67.  
 California Museum of Vertebrate Zoology, 12, 177.  
 California scholarships, 160.  
 California School of Fine Arts, 13.  
 Carnot medal, 158.  
 Caswell loan fund, 158.  
 Chemical engineering, course in, 131.  
 Chemical laboratories, 182.  
 Chemistry, curricula of the college of, 130.  
   for admission, 79.  
   candidacy for honors in, 130.  
 Chi Omega prize, 159.  
 Citrus Experiment Station, Riverside, 13, 192.  
 Civil Engineering, curricula of the college of, 129.  
 Civil Engineering equipment, 187.  
 Civil Engineering laboratory, 188.  
 Class loan funds, 155-156.  
 Classification, regulations concerning, 141.  
 Climate of Berkeley, 54.  
 Cole scholarship, 165.  
 Colin European fellowship fund, 168.  
 College of Dentistry, 13, 66.  
 College Entrance Examination Board, 98.  
 Colleges and departments of the University, 12.  
 Columbia University scholarships in engineering, 167.  
 Commerce, curriculum of the college of, 120.  
 Commercial history, for admission, 95.  
 Committees, Regents, 9.  
 Conditions and failures, 147.  
 Congressional districts of California, 161.  
 Conservatory, 182.  
 Cook prize in poetry, 159.  
 Cooking, for admission, 90.  
 Correspondence instruction, 171.  
 Cowell scholarships, 163.  
 Credit, regulations concerning, 143.  
 Cryptogamic herbarium, 179.  
 Curricula, 120-140.  
   recommendations for, 65.  
 Dairying, for admission, 91.  
 Dante prize, 159.  
 Davis scholarship, 163.  
 Dean of the Lower Division, 152.  
 Dean of Women, 152.  
 Deans, duties of, 152.  
 Debate, Intercollegiate, 160.  
 Deficiencies, admission with, 69.  
 Degree requirements, 132.  
 Degrees conferred in several colleges, 56.  
   regulations concerning, 150.  
 Denicke loan fund for members of the faculty, 157.  
 Dentistry, College of, 13, 66.

- Departments of the University, 12.  
 Discipline, 148.  
 Dividing of entrance examinations, 99.  
 Dohrmann loan fund for members of the faculty, 158.  
 Dolbeer scholarships, 168.  
 Domestic Science, for admission, 90.  
 Drawing, for admission, 89.  
 DuBois scholarships, 168.  
 Economic geography, for admission, 95.  
 Economic geology curriculum, 128.  
 Education, School of, 186.  
 Electrical engineering course, 127.  
 Electrical laboratories, 184.  
 Emily Chamberlain Cook prize in poetry, 159.  
 Employment, 154.  
 Engineering curricula, 127-131.  
 Engineering theses, 149.  
 English, for admission, 72, 81.  
 Entomological laboratories, 191.  
 Examinations, entrance, 98.  
     regulations concerning, 144.  
 Excess matriculation credit, 70.  
 Expenses of students, 152.  
 Extension, University, 170.  
 Failures and conditions, 147.  
 Farm mechanics, for admission, 95.  
 Fees, gymnasium and infirmary, 153.  
     laboratory, 153.  
     law library, 153.  
 Fellowships and scholarships, 160, 165, 166.  
 Final examinations, regulations concerning, 144.  
 Flood fellowships, 168.  
 Food preparation, for admission, 90.  
 Forest utilization, curriculum in, 125.  
 French, for admission, 86.  
 Funds, 55.  
 Gas engineering curriculum, 127.  
 Gas laboratory, 186.  
 General information, 152.  
 General Science, for admission, 80.  
 Geography, for admission, 80, 95.  
 Geology, museum of, 180.  
 Geometry, for admission, 74, 78.  
 German, for admission, 87.  
 Gilman Hall, 51, 182.  
 Goewey scholarship, 169.  
 Government, for admission, 75.  
 Grades of scholarship, 146.  
 Graduate courses, admission to, 110.  
 Graduate division, 151.  
 Graduate School of Tropical Agriculture, 13, 191.  
 Greek, for admission, 77.  
 Grubstake W loan fund, 156.  
 Gymnasium fee, 153.  
 Gymnasiums, 193.  
 Hammerslag loan fund, 157.  
 Harmon Gymnasium, 193.  
 Harmony, for admission, 96.  
 Hastings College of the Law, 13, 67.  
 Hawaiian Alumni loan scholarship, 164.  
 Hearst Hall, 193.  
 Hearst Memorial Mining Building, 188.  
 Hearst scholarships, 160.  
 Herbarium, phaenogamic, 178.  
     cryptogamic, 179.  
 Herzstein Research Laboratory for Biology, 18.  
 Hilgard Hall, 51.  
 Hinckley scholarship, 163.  
 History, for admission, 75, 78, 81, 95.  
     of the University, 46.  
 Hitchcock lectureship, 170.  
 Home Economics, 66, 116.  
     for admission, 90.  
 Honorable dismissal, 148.  
 Honorable mention, 111, 150.  
 Honors, candidacy for, 111, 118, 180.  
     regulations concerning, 150.  
 Hooper Foundation for Medical Research, 13.  
 Hooper fellowships, 169.  
 Horticulture, for admission, 98.  
 Houghton scholarship, 162.  
 Household Economics, 116.  
 Howison fellowships, 170.  
 Hydraulic laboratory, 186.  
 Hygiene, for admission, 80.  
 Hygiene, required, 143.  
 Imperial Valley Experiment Station, 12, 192.  
 Industrial arts, for admission, 89.  
 Industrial history, for admission, 95.  
 Infirmary, 194.  
 Infirmary fee, 153.  
 Instruction, organization of, 56.  
 Intercollegiate debate, 160.  
 Irrigation engineering curriculum, 129.  
 Irving prize, 159.  
 Jerome C. Levy scholarship, 164.  
 Johnston memorial scholarship, 163.  
 Jones scholarships, 160.  
 Junior certificate, 111.  
     summary of requirements for, 113.  
 Jurisprudence, School of, 186.  
 Kearney Ranch, 192.  
 Kellogg fellowship in astronomy, 169.  
 Kerr scholarship in medicine, 166.  
 Laboratories, description of, 180.  
 Laboratory fees, 153.  
 Latin, for admission, 75.  
 Law, Hastings College of the, 13, 67.  
     course in the academic colleges, 67, 136.  
 Law library fee, 153.  
 Leave of absence, 148.  
 LeConte fellowships, 167.  
 Lectureships, special, 170.  
 Letters and Science, college of, 111.  
 Levi Strauss scholarships, 161.

- Levy scholarship from Stockton High School, 164.  
 Library, 174.  
 Lick Astronomical Department, 13.  
 Lick Observatory, 182.  
 Lick Observatory fellowships, 168.  
 Life diplomas, admission on, 108.  
 Limited students, 71.  
 Liquor law, one mile, 152.  
 Livestock, for admission, 92.  
 Loan funds, 155.  
 Lodging and board, 153.  
 Los Angeles High School scholarships, 162.  
 Los Angeles Medical Department, 13.  
 Lower division, 111.  
 Mackay fellowships, 167.  
 Mathematical models, 178.  
 Mathematics, for admission, 74, 78.  
 Matriculation, deficiencies, 69.  
     examinations, dividing of, 99.  
     requirements for, 57, 113.  
 Mechanical and electrical laboratories, 183.  
 Mechanical arts, for admission, 89.  
 Mechanics, curricula of the college of, 127.  
 Medals, 158.  
 Medical School, 12, 187.  
 Metallurgy curriculum, 128.  
 Meteorological station, 182.  
 Military engineering, curriculum in, 126.  
 Military science, 143.  
 Military uniforms, 158.  
 Mills Observatory, 13.  
 Mineralogical laboratory, 188.  
 Mining, curricula of the college of, 128.  
 Mining student loan fund, 157.  
 Modern languages, for admission, 86.  
 Museums, 174.  
 Music, for admission, 96.  
 N. S. G. W. fellowships in Pacific Coast history, 169.  
 Napa Seminary Club loan fund, 157.  
 Nathan scholarship, 164.  
 Natural science prescribed, 115.  
 Newman Hall essay prize, 159.  
 Normal school graduates, admission of, 108.  
 Observatory, Lick, 182.  
 Observatory, Students', 181.  
 Officers, administrative, 10.  
 Organization of instruction, 56.  
 Organization of the University, 53.  
 Oriental schools, admission from, 109.  
 Pacific Coast history, fellowships in, 169.  
 Paget scholarship, 187.  
 Palaeontology collections, 179.  
 Petrographical laboratory, 183.  
 Petroleum engineering curriculum, 128.  
 Phaenogamic herbarium, 178.  
 Pharmacy, California College of, 13, 67.  
 Physical education, 143.  
 Physical geography, for admission, 80.  
 Physical laboratories, 181.  
 Physics, for admission, 78.  
 Physiological laboratory, 183.  
 Physiology, for admission, 80.  
 Pixley scholarships, 169.  
 Poetry, Emily Cook prize in, 159.  
 Poultry, for admission, 93.  
 Preparatory subjects, 59.  
     description of, 71.  
 Preston School of Industry fellowship, 170.  
 Prizes, 158.  
 Professional schools and colleges, 56.  
 Prytanean loan fund, 155.  
 Psychological laboratory, 180.  
 Public health, curricula in, 138.  
 Railroad engineering curriculum, 129.  
 Regents, 8, 53.  
 Registration, routine of, 142.  
 Regulations concerning students in academic departments, 141.  
 Requirements for admission, 57.  
     for bachelor's degrees, 132.  
     for matriculation and junior certificate, 113.  
 Residence at the University, 110.  
 Richardson Latin translation prize, 159.  
 Sampson scholarships or fellowships, 166.  
 Sanborn scholarships, 165.  
 San Francisco Girls Union scholarship, 164.  
 Sanitary Engineering curriculum, 129.  
 San Joaquin Women's Clubs' loan fund, 157.  
 San Jose High School scholarship, 162.  
 Santa Cruz High School scholarship, 162.  
 Scholarship grades, 146.  
 Scholarships, undergraduate, 160.  
     applications for, 160, 165, 166.  
     graduate or undergraduate, 165.  
 Science, general, for admission, 80.  
 Scripps Institution for Biological Research, 13.  
 Self-support of students, 154.  
 Senate, Academic, 14, 20, 53.  
 Sewing, for admission, 90.  
 Sheffield Sanborn scholarships, 165.  
 Shelter, for admission, 90.  
 Site and climate, 54.  
 Snell Seminary Memorial loan fund, 157.  
 Spanish, for admission, 88.  
 Special lectureships, 170.  
 Special students, 71.  
 Spreckels physiological laboratory, 183.  
 State of California scholarships, 160.  
 Statistics concerning officers and students, 195, 196.  
 Status of students, 57.  
 Steam and gas power laboratories, 185.  
 Stebbins scholarship, 165.  
 Stenography and typewriting, for admission, 96.  
 Stockton High School scholarship, 164.  
 Strauss scholarships, 161.

- Study-list limits, 143.  
Subject A, 71, 112.  
Subject B, 71, 112.  
Summer session, 173.  
Surplus matriculation credit, 70.  
Swimming pools, 193.  
Taussig memorial scholarship, 165.  
Theses in engineering and agriculture, 149.  
Thompson memorial fund, 165.  
Trigonometry, for admission, 78.  
Tuition, 152.  
Typewriting, for admission, 96.  
Undergraduate curricula, 56.  
Uniforms, military, 153.  
Units of work and credit, 143.  
University Extension, 12, 52, 170.  
University Farm 13, 192.  
University fellowships, 166.  
    in Pacific Coast history, 169.  
University medal, 158.  
University medal loan fund, 156.  
Upper division, 116.  
Vertebrate zoology, museum of, 177.  
Walcott medical loan fund, 158.  
Walton loan fund, 155.  
Weinstock lectureship, 170.  
Wheeler Hall, 51.  
Whittier bequest, 168.  
Whittier Laboratory of Plant Pathology, 13.  
Y. M. C. A., 155.  
Xi Psi Phi Fraternity loan fund, 158.  
Yale Alumni Association fellowship, 168.  
Zoological collections, 177, 179.  
Zoological laboratories, 183.  
Zoology, for admission, 79.

**REGISTER—PART II**

**ANNOUNCEMENT OF COURSES FOR 1917-18**

IN THE COLLEGES OF  
LETTERS AND SCIENCE  
COMMERCE  
AGRICULTURE  
MECHANICS  
MINING  
CIVIL ENGINEERING  
CHEMISTRY

IN THE SCHOOLS OF  
ARCHITECTURE  
EDUCATION  
JURISPRUDENCE

AND THE FIRST AND SECOND YEARS OF THE  
MEDICAL SCHOOL

JULY, 1917



UNIVERSITY OF CALIFORNIA

---

ANNOUNCEMENT  
OF  
**COURSES OF INSTRUCTION**

**IN THE COLLEGES OF LETTERS AND SCIENCE,  
COMMERCE, AGRICULTURE, MECHANICS,  
MINING, CIVIL ENGINEERING, AND CHEMISTRY**

**THE SCHOOLS OF  
ARCHITECTURE, EDUCATION, AND JURISPRUDENCE**

**AND THE FIRST AND SECOND YEARS OF  
THE MEDICAL SCHOOL**

**FOR THE ACADEMIC YEAR 1917-18**

**UNIVERSITY OF CALIFORNIA PRESS  
BERKELEY**

**1917**





## CLASSIFICATION AND NUMBERING OF COURSES

---

### CLASSIFICATION.

#### I. UNDERGRADUATE COURSES.

##### 1. *Lower Division Courses.*

(a) A prescribed course is one that is required specifically or as an alternative for graduation in any particular college.

(b) A free-elective course in the lower division is any course that is not prescribed. A free-elective course may be taken as a prerequisite for a more advanced elective in the same field.

##### 2. *Upper Division Courses.*

(a) A major course is an upper division course of advanced work in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. All major courses are definitely announced as such, and are given the numbers 100-199, as is explained below. Concerning *honors*, see the annual Circular of Information of the Academic Departments in addition to the departmental announcements in the following pages.

(b) A free-elective course in the upper division is a course for which the Junior Certificate or junior standing is normally prerequisite, but which does not demand necessarily any preliminary knowledge of the subject. Lower division courses may be taken as free-electives in the upper division, but upper division courses, whether free-elective or otherwise, are not open to students of the lower division without the special permission of the department concerned.

#### II. GRADUATE COURSES.

### NUMBERING.

Excepting only the major courses, *all undergraduate courses*, whether in the lower or upper division, are numbered from 1 to 99, inclusive.

*Undergraduate major courses* are numbered from 100 to 199, inclusive.

*Graduate courses* are numbered from 200 to 299, inclusive.

*Year Courses; Double Numbers.* A course designated by a double number (for example, History 1A-1B) is continued through two successive half-years, that is, from August to May, or from January to December. The student will use the first number in registering for the course during its first half-year, and the second number during its second half-year. A final report will be made by the instructor at the end of each half-year; "provisional mid-year reports" in year courses have been discontinued. The student may discontinue the course at the end of the first half-year, with final credit for the first half of the course.

### CREDIT VALUATION OF COURSES

In the ANNOUNCEMENT OF COURSES the credit value per half-year for every course is indicated. It is to be understood that the number of units agrees with the number of "hours" except where otherwise stated.

## THE UNIVERSITY LIBRARY

---

The University Library building, provided by the bequest of the late Charles F. Doe, was first occupied in June, 1911, at the opening of the Summer Session. The library at present contains over 340,000 volumes. A collection of between 15,000 and 20,000 volumes is being gradually accumulated on open shelves in the large reading room, free of access to all students; and, in addition, the seminar rooms, in which special collections on various subjects are installed, provide accommodations for more advanced workers.

Among the more important special collections may be mentioned the Bancroft Library of west American history, which is unique in its field, and the Weinhold collection on Germanic philology and folklore. The law library of something over 12,000 volumes is separately housed in the Boalt Hall of Law.

The current serials and periodicals, amounting to considerably over 7,000 titles, are kept in a special room of the University Library. Much unusual material, especially in the field of foreign scientific publications, is received in exchange for the publications of the University and is included here.

The resources of the library are supplemented by an inter-library loan system, and information as to the resources of certain other large libraries, which can be drawn upon when necessary, is provided by the depository catalogue. This contains the printed cards of the Library of Congress, the University and John Crerar libraries in Chicago, and the Harvard University Library, as well as cards on special subjects published by the Royal Library in Berlin.

# COURSES OF INSTRUCTION OFFERED IN THE COLLEGES AT BERKELEY FOR THE ACADEMIC YEAR, 1917-18

---

## AGRICULTURE

- THOMAS F. HUNT, D.Agr., Sc.D., Professor of Agriculture, Dean of the College of Agriculture and Director of the Agricultural Experiment Station.
- ROBERT H. LOUGHRIDGE, Ph.D., Professor of Agricultural Chemistry, Emeritus.
- EDWARD J. WICKSON, M.A., Professor of Horticulture, Emeritus.
- HUBERT E. VAN NORMAN, B.S., Professor of Dairy Management, Vice-Director of Agricultural Experiment Station, and Dean of University Farm School.
- HERBERT J. WEBBER, Ph.D., Professor of Plant Breeding, Director of the Citrus Experiment Station, and Dean of the Graduate School of Tropical Agriculture.
- MYER E. JAFFA, M.S., Professor of Nutrition.
- CHARLES W. WOODWORTH, M.S., Professor of Entomology.
- RAIPH E. SMITH, B.S., Professor of Plant Pathology.
- J. ELIOT COIT, Ph.D., Professor of Citriculture.
- CHARLES F. SHAW, B.S., Professor of Soil Technology.
- JOHN W. GREGG, B.S., Professor of Landscape Gardening and Floriculture.
- JOHN W. GILMORE, M.S., Professor of Agronomy.
- FREDERIC T. BIOLETTI, M.S., Professor of Viticulture and Enology.
- WARREN T. CLARKE, B.S., Professor of Agricultural Extension and Superintendent of Farmers' Institutes.
- JOHN S. BURD, B.S., Professor of Agricultural Chemistry.
- CHARLES B. LIPMAN, Ph.D., Professor of Soil Chemistry and Bacteriology.
- CLARENCE M. HARING, D.V.M., Professor of Veterinary Science.
- ERNEST B. BABCOCK, M.S., Professor of Genetics.
- GORDON H. TRUE, B.S., Professor of Animal Husbandry, Davis.
- JAMES T. BARRETT, Ph.D., Professor of Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- FRITZ W. WOLL, Ph.D., Professor of Animal Nutrition, Davis.
- WALTER MULFORD, F.E., Professor of Forestry.
- WALTER P. KELLEY, Ph.D., Professor of Agricultural Chemistry in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- DAVID T. MASON, M.F., Professor of Forestry.
- HENRY J. QUAYLE, M.S., Professor of Entomology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

ELWOOD MEAD, D.Eng., Professor of Rural Institutions.

HOWARD S. REED, Ph.D., Professor of Plant Physiology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

JAY B. DAVIDSON, A.E., Professor of Agricultural Engineering, Davis.

FRANK ADAMS, M.S., Professor of Irrigation Investigations.

CHESTER L. ROADHOUSE, D.V.M., Professor of Dairy Industry, Davis.

LEON D. BATCHELOR, Ph.D., Professor of Plant Breeding in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

\*HOWARD S. FAWCETT, M.S., Associate Professor of Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

WILLIAM T. HORNE, B.S., Associate Professor of Plant Pathology.

ERWIN J. LEA, M.S., Associate Professor of Nutrition.

WALTER L. HOWARD, Ph.D., Associated Professor of Pomology, Davis.

WILLIAM B. HEERMS, M.A., Associate Professor of Parasitology.

WILLIAM G. HUMMEL, M.S., Associate Professor of Agricultural Education.

JOHN E. DOUGHERTY, B.S., Associate Professor of Poultry Husbandry, Davis.

BERTRAM H. CROCHERON, M.S.A., Associate Professor of Agricultural Extension.

GEORGE H. HART, M.D., D.V.M., Associate Professor of Veterinary Science.

DAVID N. MORGAN, B.S., Associate Professor of Agriculture and Assistant to the Director.

PATRICK B. KENNEDY, Ph.D., Associate Professor of Agronomy.

RICHARD L. ADAMS, M.S., Associate Professor of Agronomy.

STANLEY S. ROGERS, B.S., Associate Professor of Olericulture, Davis.

JOHN I. THOMPSON, B.S.A., Assistant Professor of Animal Husbandry, Davis.

BEN A. MADSON, B.S.A., Assistant Professor of Agronomy, Davis.

WALTER E. PACKARD, M.S., Assistant Professor of Agronomy and Experimental Agronomist in charge of Imperial Valley Station, El Centro.

FRED M. HAYES, D.V.M., Assistant Professor of Veterinary Science, Davis.

WILLIAM V. CRUESS, B.S., Assistant Professor of Zymology.

SAMUEL H. BECKETT, B.S., Assistant Professor of Irrigation Practice, Davis.

JAMES W. NELSON, B.S., Assistant Professor of Soil Technology.

LESLIE T. SHARP, B.S., Assistant Professor of Soil Chemistry and Bacteriology.

DENNIS R. HOAGLAND, M.A., Assistant Professor of Agricultural Chemistry.

GUY R. STEWART, B.S., Assistant Professor of Agricultural Chemistry.

O. J. KERN, Assistant Professor of Agricultural Education.

RAI PH T. STEVENS, B.S., Assistant Professor of Landscape Gardening and Floriculture.

---

\* Absent on leave, 1917-18.

- MERRITT B. PRATT, M.F., Assistant Professor of Forestry.  
ROLAND S. VAILE, A.B., Assistant Professor of Orchard Management in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.  
ROBERT F. MILLER, M.S., Assistant Professor of Animal Husbandry, Davis.  
JACOB TRAUM, D.V.M., Assistant Professor of Veterinary Science.  
WOODBIDGE METCALF, M.S., Assistant Professor of Forestry.  
T. FRANCIS HUNT, B.S., Assistant Professor of Agricultural Extension and Assistant Superintendent of Farmers' Institutes.  
ELIZABETH H. SMITH, M.S., Assistant Professor of Plant Pathology.  
RALPH H. TAYLOR, B.S., Assistant Professor of Pomology.  
\*EDWIN C. VAN DYKE, M.D., Assistant Professor of Entomology (Exchange Professor at Cornell University, 1917-18).  
IRA J. CONDIT, B.S., Assistant Professor of Citriculture.  
DONALD BRUCE, M.F., Assistant Professor of Forestry.  
HENRY A. MATTILL, Ph.D., Assistant Professor of Nutrition.  
WILLIAM F. GERICKE, M.S., Assistant Professor of Soil Chemistry.  
ALFRED SMITH, M.A., Assistant Professor of Soil Technology.  
ROY E. CLAUSEN, Ph.D., Assistant Professor of Genetics.  
EDWARD O. ESSIG, M.S., Assistant Professor of Entomology.  
VIRGIL C. BRYANT, M.S., Assistant Professor of Agricultural Extension.  
CHESTER W. RUBEL, B.S.A., Assistant Professor of Agricultural Extension.  
WILLIAM B. PARKER, M.S., Assistant Professor of Agricultural Extension, Riverside.  
GEORGE P. GRAY, M.S., Assistant Professor of Entomology and Chemist in Insecticide Laboratory.  
HARRY S. BAIRD, B.S., Assistant Professor of Dairy Industry, Davis.  
GEORGE W. HENDRY, B.S., Assistant Professor of Agronomy.  
ARTHUR H. HENDRICKSON, B.S. Assistant Professor of Pomology.  
WARREN P. TUFTS, M.S., Assistant Professor of Pomology, Davis.  
PAUL L. HIBBARD, B.S., Assistant Professor of Agricultural Chemistry.  
WILLIAM H. HEILEMAN, M.S., Assistant Professor of Agricultural Extension.  
JAMES C. BRADLEY, Ph.D., Assistant Professor of Entomology (Exchange Professor from Cornell University, 1917-1918).  
HOWARD B. FROST, Ph.D., Instructor in Plant Breeding in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.  
FRIEDRICH C. H. FLOSSFEDER, Instructor in Viticulture and Superintendent of Grounds, Davis.  
GEORGE A. COLEMAN, M.A., Instructor in Entomology and Curator of the Agricultural Museum.  
HUBERT L. BELTON, Instructor in Shopwork, Davis.  
ROSS C. INGRIM, Instructor in Shopwork, Davis.  
CLAYTON O. SMITH, M.A., Instructor in Plant Pathology, Whittier.  
DANIEL H. CAREY, B.S., Instructor in Floriculture and Superintendent of Greenhouses and Gardens.  
STANLEY B. FREEBORN, B.S., Instructor in Entomology.

\*Absent on leave, 1917-18.

EDWIN C. VOORHIES, B.S., Assistant Professor of Animal Husbandry, Davis.

WYLIE E. LLOYD, B.S., Instructor in Poultry Husbandry, Davis.

LEONARD J. FLETCHER, B.S., Instructor in Agricultural Engineering, Davis.

OWEN F. BURGER, Sc.D., Instructor in Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

STEPHEN L. DENNING, B.S., Instructor in Dairy Industry, Davis.

RALPH P. ROYCE, B.S., Instructor in Animal Husbandry, Davis.

HENRY H. P. SEVERIN, Ph.D., Instructor in Entomology.

WALTER C. DEAN, B.S., Instructor in Soil Technology.

ELMER R. DEONG, B.S., Instructor in Entomology, Davis.

WILLIAM L. SWEET, M.S., Instructor in Pomology.

J. RAYMOND BEACH, D.V.M., Instructor in Veterinary Science, Davis.

PETER T. PETERSON, D.V.M., Instructor in Veterinary Science, in charge of serum manufacture.

ROBERT W. HODGSON, B.S., Instructor in Citriculture.

HARRY M. BUTTERFIELD, B.S., Instructor in Agricultural Education.

MEREDITH R. MILLER, B.S., Assistant Chemist in Insecticide Control.

ARTHUR W. CHRISTIE, M.S., Instructor in Agricultural Chemistry.

KATHERINE JONES, B.S., Assistant in Landscape Gardening and Floriculture.

FRANCIS W. ALBRO, B.S., Assistant in Nutrition.

DONALD E. MARTIN, B.S., Assistant in Soil Chemistry and Bacteriology.

JAMES R. ZION, B.S., Assistant in Viticulture.

EARL B. BISSEE, B.S., Instructor in Dairy Industry, Davis.

WALTER C. ROBERTS, B.S., Assistant in Soil Chemistry.

HAROLD A. WADSWORTH, B.S., Assistant in Irrigation Investigations.

J. C. MARTIN, B.S., Assistant in Agricultural Chemistry.

G. F. FERMERY, Assistant in Agricultural Engineering, Davis.

WALTER W. WOBUS, B.S., Assistant in Agricultural Education.

---

*Upper Division Courses.*—All upper division courses announced by this department presuppose at least junior standing in the College of Agriculture. Students in other colleges may elect such courses in the department of agriculture as they are qualified to pursue.

*Honors.*—Students who become candidates for the bachelor's degree may be recommended for honors on the basis of the quality of the work done in the regular curriculum of the senior year or its equivalent, or on the basis of a thesis showing ability to do original work.

*Practice Courses.*—Every student is required to complete a practice course in the subject which he elects for his major study. The object of these courses is to give the student an insight into the actual practice of his chosen occupation. The practice courses consist of two general lines of work: (1) technical, instructional courses carrying 6 units credit, and (2) practical work on a farm, in a laboratory, factory, or other commercial enterprise, carrying no university credit. Students who take the latter work (2) are required to offer, in addition, 6 units chosen from any university department in order to make up the 130 units required for graduation.

**AGRICULTURAL CHEMISTRY**

1. **General Agricultural Chemistry.** Professor BURD.  
The relation of chemistry to agriculture. Lectures.  
3 hrs., first half-year. Tu Th S, 9. Prerequisite: Chemistry 1A-1B.  
Prescribed for sophomores in the College of Agriculture.
2. **Agricultural Laboratory.** Professor BURD, Mr. CHRISTIE, and Mr. MARTIN.  
Experiments with and laboratory tests of agricultural materials.  
6 hrs., first half-year; 2 units. Sec. I, M F, 1-4; Sec. II, Tu Th, 1-4.  
Prerequisite: Chemistry 1A-1B. Prescribed concurrently with course  
1 for sophomores in the College of Agriculture.
- 101A-101B. **Advanced Agricultural Chemistry.** Assistant Professor HOAGLAND.  
The technical application of chemical principles to agricultural phenomena and problems; complete and proximate analysis of materials of agricultural interest; choice of methods, limits of permissible error, interpretation of results obtained in the laboratory.  
7 hrs., throughout the year; 3 units each half-year. Lecture to be arranged; laboratory, first half-year, Tu Th, 1-4; second half-year, Tu Th, 2-5. Prerequisite: Chemistry 5 or 6A-6B and 8A-8B (6A-6B recommended; 8A-8B may be taken concurrently). Required for the major in agricultural chemistry.
102. **The Chemistry of Fertilizers.** Assistant Professor HIBBARD.  
The relations of fertilizers to plants and soils; chemical examination with special reference to agricultural and commercial evaluation; the correlation of chemical properties and physical texture with availability.  
6 hrs., second half-year; 2 units. Lectures and discussions as required. Laboratory, Tu Th, 9-12. Prerequisite: courses 1 and 2; Chemistry 5 or 6A-6B. Required for the major in agricultural chemistry and soils.
103. **Laboratory Study of Selected Topics.** Assistant Professor HOAGLAND.  
Continuation of course 101A-101B. Prerequisite to thesis course.  
6 hrs. laboratory, 1 hr. lecture and discussion, first half-year; 3 units.  
Prerequisite: course 101A-101B. Required for the major in agricultural chemistry.

**104A-104B. Pro-seminar.**

Professor BURD and Assistant Professor HOAGLAND.

Discussion of literature and papers prepared by members of the class.

2 hrs. bi-weekly, throughout the year; 1 unit each half-year. Alternate Th, 4-6. Required in the junior and senior years for the major in agricultural chemistry. Elective to those taking course 101A-101B.

**105. Thesis Course.**

Instructor in charge of Thesis.

4 units. Hours to be arranged. Prerequisite: course 103.

**201. Research.**

Professor BURD.

Hours to be arranged.

---

**AGRICULTURAL EDUCATION****5. Agencies for Rural Progress.**

Assistant Professor KERN.

Country life problems, agencies for rural progress, and the best means of utilizing those agencies for the improvement of rural communities. Lectures, assigned readings, and reports.

3 hrs., second half-year. M Tu W, 9.

**99. Practice Course.**

Arrangements may be made by consultation with the head of the division.

**100. Elements of Agriculture, Nature Study and School Gardens.**

Assistant Professor KERN.

Aims, methods and materials used in agricultural instruction in the elementary and grade schools; teaching plans; educational value of the school garden; the home garden and the value of home project work in agricultural education. Practical garden work on the campus.

5 hrs., either half-year; 3 units. Lectures, M W, 1; laboratory, Tu, 1-4.

**101. High School Farms, Gardens, and Community Work.**

Associate Professor HUMMEL.

Lectures, reports, and conferences on the utilization of land in connection with agricultural teaching; means by which the facilities of a school can be brought into intimate and helpful relation with the agricultural interests and home life of the community supporting the school; practice in planning and executing school farm problems and demonstrations.

5 hrs., second half-year; 3 units. Lectures, M W, 11; laboratory, F, 1-4. Prerequisite: senior standing.



**102. General Science and First-year Agriculture.**

**Associate Professor HUMMEL.**

The aims and values of a general science course in the high school, comparative study of typical courses, and exposition of the peculiar adaptations to the general science work of an elementary agricultural course in which plant study forms the basis of continuity. The equipment, nature, and amount of practical work needed in the course, including field trips and excursions, outdoor and laboratory exercises, will be considered in detail.

3 hrs., first half-year. M W F, 2.

**104. Agriculture in Secondary Schools. Associate Professor HUMMEL.**

Agricultural teaching, including its history, the teaching methods to be employed and the equipment needed. A general consideration of the educational aims and values of the work and of the organization of the course is followed by a detailed study of materials and methods involved in the teaching of elementary agriculture, dairying, animal husbandry, horticulture, etc. Lectures, readings, and assigned practicums.

3 hrs., first half-year. M W F, 10. Prerequisite: senior standing.

**105. Rural School Administration. Assistant Professor KEEN.**

Readings and classroom discussions of the fundamentals of rural school organization, management, and improvement.

3 hrs., first half-year. M Tu W, 9.

**115. Individual Study of Selected Topics in Agricultural Education.**

**Associate Professor HUMMEL and Assistant Professor KERN.**

Either half-year. Hours to be arranged.

**120A-120B. Pro-seminar.**

**Associate Professor HUMMEL and Assistant Professor KERN.**

2 hrs., throughout the year. Tu, 3-5.

**125. The Practice of Teaching Agriculture.**

**Associate Professor HUMMEL.**

A five weeks' practice course in selected high schools of the state. Making of lesson plans, practice teaching, reports and conferences with supervising teacher and instructor. Supervised practice teaching and observation of methods and management of class and laboratory instruction by the local teacher. By arrangement with the Department of Education, properly prepared students may satisfy the requirements in practice teaching for the high school teacher's recommendation by taking this course instead of Education 201.

To begin immediately after the close of the second half-year; 4 units.  
Prerequisite: courses 102 and 104 and Education 223.

**202. Special Studies in Agricultural Education.**

**Associate Professor HUMMEL and Assistant Professor KERN.**

Either half-year. Hours to be arranged.

**AGRONOMY****99. Practice course.**

Associate Professor ADAMS and Assistant Professor HENDRY.

Methods of crop production and farm management, with practice work. Trips into the surrounding country.

Six weeks. Daily, except Sunday, beginning the day after Commencement; 6 units.

(Given at Berkeley)

**103. Seeds.**

Associate Professor KENNEDY.

Morphology and relationship of seeds, impurities, germination. Special attention will be given to seeds of economic importance.

4 hrs., second half-year; 2 units. Lecture, Th, 1; laboratory, Th, 2-5.

**\*104. Weeds.**

Associate Professor KENNEDY.

The appearance, habits, and problems of the more common weeds in their relation to agriculture. Lectures and demonstrations.

2 hrs., second half-year.

**106. Cereals.**

Assistant Professor HENDRY.

The cereals of America with special reference to California and Pacific Coast conditions. It is highly desirable that the student should have finished Botany 3 before entering upon the course.

5 hrs., first half-year; 3 units. Lectures, Tu Th, 9; laboratory, Th, 2-5.

**108. Agrostology.**

Associate Professor KENNEDY.

Morphology and taxonomy of grasses and legumes in their relations to agriculture.

5 hrs., second half-year; 3 units. Lectures, Tu Th, 9; laboratory, Tu, 2-5. Prerequisite: Botany 2, 3, and 104B.

**118. Farm Management.**

Associate Professor ADAMS.

The business aspects of land management. The relation of capital, choice of land, farm equipment, farm layout, cropping systems, labor, marketing and farm accounts to specific agricultural industries, both special and general. The correlation and application of agricultural principles to specific problems. Open only to seniors.

3 hrs., first half-year. M W F, 9.

**119. Farm Management.**

Associate Professor ADAMS.

Advanced and special problems supplementing course 118. Open only to seniors.

2 hrs., first half-year. M, 2-4.

---

\* Not to be given, 1917-18.

120. Crop Production. Professor GILMORE.  
Field practice and experimental methods of crop production, crop management, maintenance of fertility, and miscellaneous crops. Lectures, assigned readings, and problems.  
3 hrs., second half-year. Tu Th S, 10. Prerequisite: Soil Technology 1.
130. Conference—Special Topics. Professor GILMORE and STAFF.  
Presentation of reports and papers with discussions on subjects assigned.  
2 hrs., first half-year; 1 unit. W, 4-6.
- 131A-131B. Thesis. Professor GILMORE and STAFF.  
Study of literature with laboratory or field investigations or problems assigned.  
Throughout the year; 1 to 2 units each half-year.
200. Advanced Agronomy. Professor GILMORE.  
Original investigation of problems in crop production.  
Either half-year. Hours to be arranged.
201. Advanced Agrostology. Associate Professor KENNEDY.  
Original investigation of forage crops and problems.  
Either half-year. Hours to be arranged.
202. Advanced Farm Management. Associate Professor ADAMS.  
Original investigation of problems in farm management.  
Either half-year. Hours to be arranged.
- (Given at Davis)
100. Advanced Practice. Assistant Professor MADSON.  
Practice and correlated problems in crop production as conducted in the field with experimental plots.  
9 hrs., second half-year; 3 units.
107. Forage Crops. Associate Professor KENNEDY.  
The plants which produce feed for live-stock: their characteristics, adaptations and culture methods; the principles underlying the maintenance of meadows, pastures and ranges. Lectures and demonstrations.  
5 hrs., second half-year; 3 units. M, 11; Tu, 9; M, 1-4.
111. Field Practice. Assistant Professors MADSON and HENDRY.  
Field studies with work on tabulation and correlation of operations and results. Various types and varieties of field crops and the cultural methods involved in their production.  
9 hrs., second half-year; 3 units. W F, 1-5:30.

**ANIMAL HUSBANDRY**

99. Practice in Animal Husbandry. Professor TRUE and STAFF.  
Summer practice course at the University Farm for students with a major in animal husbandry. Work is adapted to the needs of the individual student.  
6 weeks beginning the day after Commencement. 6 units.  
(Given at Berkeley)
100. Farm Animals. Professor TRUE.  
A general course on the breeds, care, and management of farm animals, designed especially for students who have not a major in animal husbandry.  
3 hrs., first half-year. M Tu W, 4.  
(Given at Davis)
101. Management of Farm Animals. Assistant Professor MILLER.  
The care and management of horses, beef cattle, dairy cattle, sheep and hogs; lectures and practice work in the feeding and care of animals at the barn and fitting stock for exhibition purposes.  
2 lectures and 2 laboratory periods; 4 units. One laboratory period will include stable practice with the different classes of live stock at the University Farm.
102. Feeding of Farm Animals. Assistant Professor MILLER.  
A study of the common feed stuffs and their uses with respect to horses, beef cattle, dairy cattle, sheep and hogs.  
4 hrs., second half-year.
105. Dairy Cattle and Hogs. Professor TRUE and Assistant Professor THOMPSON.  
Lectures on the origin, history and development of breeds; practice work in judging.  
6 hrs., second half-year; 4 units. Lectures, M Th, 8; laboratory, M Th, 9-11.
106. Beef Cattle, Horses and Sheep. Assistant Professors THOMPSON and MILLER.  
A continuation of course 105.  
6 hrs., second half-year; 4 units. Lectures, M Th, 8; laboratory, M Th, 9-11.
107. Breeding Farm Animals. Assistant Professor THOMPSON.  
The application of the principles of heredity, atavism, reversion, inbreeding, line breeding, etc., to the practice of breeding farm animals. Lectures, recitations, discussions.  
3 hrs., second half-year. Tu W Th, 9.

108. **Milk Production.** Assistant Professor VOORHIES.  
Lectures and recitations on the types of dairies, advanced registry systems, dairy laws and inspection, calf raising, plans for dairy buildings; discussion of the milch goat industry.  
3 hrs., second half-year. Tu Th F, 11.
109. **Pro-seminar.** Professor TRUE.  
Bi-weekly topics and discussions of special problems in animal breeding and management.  
2 hrs., second half-year; 1 unit.
110. **Pro-seminar.** Professor WOLL.  
Bi-weekly topics and discussions of special problems in animal feeding.  
2 hrs., second half-year; 1 unit.
- 

### CITRICULTURE

99. **Practice Course.** Professor COIT and Assistant Professor CONDIT.  
A traveling practice course in citrus and other semi-tropical fruits, designed to bring the student into active contact with the great fruit industries of the state and to give him some actual practice in as many of the operations of fruit production as practicable.  
Six weeks. Daily, except Sunday, beginning about the middle of May; 6 units. This course or its equivalent is required for graduation of those specializing in citriculture. Prerequisite: two years' study in a university or college course.
101. **Citrus Fruits.** Professor COIT.  
Propagation, location and management of orchards, orchard heating, harvesting, packing, storing, marketing, and pest control. Lectures, assigned readings, and reports.  
4 hrs., second half-year. Tu Th S, 8; Th, 4.
102. **Semi-Tropical Fruits.** Assistant Professor CONDIT.  
Semi-tropical fruits grown in California, including the olive, date, fig, avocado, guava, loquat, mango, feijoa, and others. Classification, morphology, propagation, culture, harvesting, packing, etc. Lectures, assigned readings, and laboratory work.  
6 hrs., first half-year; 4 units. Lectures, Tu Th S, 11; laboratory, Sec. I, M, 9-12; II, Tu, 2-5.
103. **Pro-seminar.** Professor COIT.  
Assigned special topics requiring extended research into pomological literature. Reports and discussions. Required of and limited to regular and graduate students electing citriculture as their major subject.  
2 hrs., either half-year. M, 3-5.

16      *Agriculture—Citriculture; Dairy Industry*

104. Citrus Investigations.      Professor COIT.  
3 or 6 hrs., either half-year; 1 or 2 units. Hours to be arranged.  
Prerequisite: senior standing in the College of Agriculture.
105. Advanced Citrus Fruits.      Professor COIT and Assistant Professor CONdit.  
Classification, morphology and chemistry of citrus fruits. History and status of citrus industry in United States and foreign countries. Lectures, written reports, and laboratory work.  
5 hrs., second half-year; 3 units. Lectures, Tu Th, 11; laboratory, Tu, 2-5. Prerequisite: course 101, completed or in progress.
106. Physiology and Anatomy of Citrus and Semi-tropical Fruit Plants.      Mr. HODGSON.  
The practical application of the principles of plant physiology and anatomy to the common problems of fruit production, transportation, and storage.  
7 hrs., second half-year; 3 units. Lectures, M, 2; laboratory, W F, 2-5. Prerequisite: Chemistry 1A-1B; Botany 2 and 3.
- 201A-201B. Laboratory or Field Research.      Professor COIT.  
Topics for research in citrus or semi-tropical fruits. Open to graduate students desiring to write theses.  
Throughout the year; hours to be arranged. Prerequisite: courses 101, 102, 103, and 105, or equivalent training. For further particulars, see Announcement of the Graduate Division.

---

**DAIRY INDUSTRY**

(Given at Davis)

99. Practice in Dairying.  
Dairy manufactures, market milk, dairy production. May be taken at the University Farm in the creamery, or at the dairy barns, or in any other creamery, milk plant or dairy farm approved by the division. May be taken after either the sophomore or junior years. Six weeks, beginning the day after Commencement.  
6 units. (Credit given only when taken at the University Farm).
102. Cheese Making.      Assistant Professor BAIRD.  
Instruction and practice in the manufacture of different varieties of hard and soft cheese. Paraffine, curing and marketing.  
6 hrs., second half-year; 3 units. M Th, 10; Tu, 1-5.

**116. Testing Dairy Products.****Mr. BISBEE.**

The nature and composition of milk and the practical application of methods of testing dairy products. Students who have credit for course 132 will not be given credit for this course.

4 hrs., second half-year; 2 units. W, 1-5.

**127. Milk and Milk Products.****Assistant Professor BAIRD.**

The properties, care and handling of milk; principles and application of the Babcock tests; the construction and operation of different makes of separators; practice in the handling and churning of cream; farm cheese making. Students who have credit for course 132 will receive but 2 units credit.

5 hrs., second half-year; 3 units. Tu, 9; W, 8; Tu, 1-4.

**128. Butter and Ice Cream Making.****Assistant Professor BAIRD and Mr. DENNING.**

The principles of creamery butter making; pasteurization, ripening and churning of cream; handling and marketing butter. Instruction and practice in the manufacture of plain and fancy ice creams, ices and sherbets.

5 hrs., second half-year; 3 units. M, 1; Tu, 9; F, 1-4.

**130. Market Milk.****Professor ROADHOUSE and Mr. BISBEE.**

Conditions affecting quality of milk for direct consumption; requisites for producing different grades of milk; tests for quality, adulteration, etc.; pasteurizing, standardizing, and bottling milk for distribution; inspecting dairies and milk plants.

5 hrs., second half-year; 3 units. W F, 10; Th, 1-4. Prerequisite: course 127 or 132; course 127 may be taken concurrently.

(Given at Berkeley)

**132. Dairy Fundamentals.****Assistant Professor BAIRD.**

The secretion, nature, and composition of milk and milk products; various tests used in testing dairy products; regulations covering the care and handling of milk and cream: dairy inspection; a survey of the dairy industry and a study of California dairy conditions. Students who have credit for course 116 will receive but 1 unit credit.

5 hrs., first half-year; 3 units. Lectures, F, 1; S, 8; laboratory, F, 2-5.

A major subject in dairy industry may include the following courses: Animal Husbandry 105, Dairy Cattle and Hogs; Animal Husbandry 108, Milk Production; Nutrition 109, Dairy Chemistry; Veterinary Science 111: Veterinary Science 117, Bacteriology of Milk and Sanitary Milk Production; Farm Mechanics 102, Dairy Mechanics.

**ENTOMOLOGY****1. General Entomology.**

Professor WOODWORTH and Assistant Professor BRADLEY.

A general review of the structure, habits, and classification of insects.

- 2 hrs., either half-year. Sec. I (Bradley), Tu Th, 10. Sec. II (Woodworth) Tu Th, 1. Course 3 or 4 must be taken concurrently with this course.

**2. Economic Entomology.**

Professor WOODWORTH.

Detailed studies of a series of the most injurious insects.

- 2 hrs., either half-year. Tu Th, 11. Course 3 or 4 must be taken concurrently with this course.

**3. Supplementary Course.**

Designed to supplement the lecture courses 1 and 2 but may be taken separately and students may register in more than one section. No credit except when taken for three or more units or concurrently with another course.

- 1-3 hrs., either half-year; 1 unit for each section. Sections: I, Coleman, M, 9; II, Severin (anatomy for course 2), M, 1-4; III, Woodworth, Tu, 9; IV, Woodworth (field work), Tu Th, 12; V, Coleman, W, 10; VI, Woodworth, W, 11; VII, Severin (anatomy for course 1), W, 1-4; VIII, Essig, Th, 9; IX, Bradley, F, 10.

**4. Elementary Systematic Entomology.** Assistant Professor BRADLEY.

The structure and classification of insects. Laboratory studies supplemented by field work.

- 6 hrs., laboratory and 3 hrs., field work; either half-year; 3 units. Tu Th, 1-4.

**6. Parasites.**

Mr. FREEBORN.

Classification, biology, relation to disease, principles of control as applied to the commoner parasites of man and beast. Lectures and recitations.

- 3 hrs., first half-year. Tu Th, 10; a section meeting to be arranged.

**27. Ecology.**

Associate Professor HERMS.

Animal communities; the relation of animals to their environment, including such topics as hunger and food, behavior, growth, adaptation and variation, social habits, insects and plants, aquatic habits, etc. Lectures, assigned reading, and written report on a given animal community. Bi-weekly quiz.

- 3 hrs., second half-year. M W F, 10.



**99. Practice in Entomology.**

**The STAFF.**

In the summer of 1915 a study of forest insects in the High Sierra was engaged in under the direction of Professor E. C. Van Dyke. In 1916 a mosquito-malaria survey of the State was undertaken in co-operation with the State Board of Health under the direction of Professor W. B. Herms. In 1917 the work consisted of a survey of the Monterey National Forest for honey plants and apiary sites under the direction of Mr. G. A. Coleman. In 1918 Professor Essig will have charge of a study of the insects of deciduous orchards.

6 weeks, beginning the day after Commencement; 6 units.

**103. Special Problems.**

Class or individual instruction. Students may register in more than one section.

6-12 hrs., either half-year; 2-4 units for each section. Laboratory hours to be arranged with instructor. Sections: I, Coleman (Homopterous insects and their parasites), II, Gray (Insecticide laws and decisions), III, Bradley, IV, Coleman (Apiculture), V, Woodworth (Microscope calculation and testing), VI, Severin, (Microscopical technique), VII, Essig, VIII, Herms (Parasitology), IX, Freeborn.

**105A-105B. Apiculture.**

**Mr. COLEMAN.**

Anatomy, embryology and physiology of the honey bee, with practice in the more common manipulations in the apiary; apiary practice, including queen breeding; control of bee diseases, etc.

7 hrs., throughout the year; 3 units each half-year. Lecture, Tu, 1; laboratory and apiary work to be arranged. May be taken by lower division students in other departments by permission of instructor.

**106A-106B. Insect Structure.**

**Dr. SEVERIN.**

The external and internal anatomy and the physiology of insects.

6 hrs., throughout the year; 2 units. Tu Th, 1-4.

**112. Advanced Systematic Entomology.** Assistant Professor BRADLEY.

Advanced study of the classification of insects.

9 hrs., either half-year; 3 units. M W F, 1-4, or by arrangement. Prerequisite: course 4.

**\*114. Forest Insects.**

Assistant Professor VAN DYKE.

Insects in their relationship to forests and woodlands.

2 hrs. lecture, 3 hrs. field work, either half-year; 3 units. Tu Th, 4.

Prerequisite: course 4.

\*Not to be given, 1917-18.

**116. Veterinary Parasitology.**

Associate Professor HERMS and Mr. FREEBORN.

The relation of animal parasites and disease carriers to domesticated animals, with special emphasis placed on control. For students in veterinary science and animal industry. This course satisfies in full the requirements in parasitology in Class A veterinary colleges.

8 hrs., first half-year; 4 units. Lectures, M W, 10; laboratory, M W, 1-4. Prerequisite: Zoology 1A and Bacteriology 1, or equivalent.

**117. Insecticide and Fungicide Preparation.**

Mr. MILLER.

Laboratory practice in the preparation of the insecticides and fungicides which may be prepared on the farm; demonstrations of simple tests. Given only in conjunction with course 118 or other allied course.

3 hrs., first half-year; 1 unit. W, 2-5.

**118. Insecticides and Fungicides.**

Assistant Professor GRAY.

The chemistry and composition of remedies used for the control of parasites that infest vegetation and animals, including the source of raw materials, commercial, and home manufactures. Lectures and recitations.

3 hrs., first half-year. M W F, 8.

**\*121. Life History Work.**

Assistant Professor VAN DYKE.

Method and practice in working out the life histories of insects in insectary and field.

6 to 9 hrs., either half-year; 2 or 3 units. Tu W Th, 1-4. Prerequisite: course 1, 2 or 4.

**122. Floral and Landscape Entomology.**

Assistant Professor ESSIG.

The common insects which attack flowers and ornamental plants in California, their classification, life histories, and control. Lectures, illustrated by specimens and lantern slides, laboratory, and field work. For students in landscape gardening and floriculture, but open to all advanced students.

8 hrs., second half-year; 4 units. Lectures, M W, 4; laboratory, M W, 1-4.

**124. Orchard Insects.**

Assistant Professor ESSIG.

The most important western insects attacking citrus, deciduous, nut and other orchard trees; classification, structure, life histories and control. Lectures illustrated with specimens and lantern slides.

Laboratory exercises based on the examination of living and prepared specimens from the orchards will be illustrative of the lectures. Field trips will be required also. For students in citriculture and pomology, but open to all upper division students.

8 hrs., first half-year; 4 units. Lectures, W F, 4; laboratory, W F, 1-4.

---

\* Not to be given, 1917-18.

126. Medical Parasitology. Associate Professor HERMS.  
The role of animal parasites in the transmission and causation of human diseases; habits and control. For students in public health, hygiene, medicine, and sanitary science. Lectures and demonstrations.  
4 hrs., second half-year; 3 units. M Tu W Th, 3. Prerequisite: Zoology 1A and Bacteriology 1.
127. Medical Parasitology Laboratory. Associate Professor HERMS and Mr. FREEBORN.  
Laboratory exercises involving the study of animal parasites of the human. Open to students who have had or are taking course 126 or equivalent.  
6 hrs., second half-year; 2 units. M W, 1-4.
- 129A-129B. Undergraduate Thesis Course.  
Professor WOODWORTH, Associate Professor HERMS, Assistant Professors BRADLEY, ESSIG, and GRAY.  
An investigation of a special problem in entomology or parasitology with a typewritten report on the results. Open only to seniors.  
6-15 hrs., throughout the year; 2-5 units. Hours to be arranged.
- 200A-200B. Seminar in Parasitology. Associate Professor HERMS.  
Discussion of reports prepared by members of the class, based either upon investigations made by the students or upon special articles of importance. Required of all students in courses 129 and 201. The seminar may be repeated indefinitely without duplication of work.  
1 hr., throughout the year. Tu, 4.
- 201A-201B. Research in Parasitology. Associate Professor HERMS and Mr. FREEBORN.  
12 or more hrs. throughout the year; 4 or more units. Hours to be arranged.
- 202A-202B. Research in Systematic Entomology. Assistant Professors BRADLEY and ESSIG.  
The revision of a group of insects.  
12 or more hrs., throughout the year; 4 or more units. Hours to be arranged.
- 205A-205B. Research in Insect Biology. Professor WOODWORTH and Dr. SEVERIN.  
Problems in the structure or physiology of insects or the action of insecticides.  
12 or more hrs. throughout the year, to be arranged.
- 218A-218B. Research in Insecticides. Assistant Professor GRAY and Mr. MILLER.  
Investigation of special problems.  
12 or more hrs., throughout the year; 4 or more units. Hours to be arranged.

**FARM MECHANICS**

(Given at Davis)

2. Shop Practice: Carpentry. Mr. BELTON.  
 The care and use of wood-working tools. Laying off work, joining, framing and construction of models and sections of buildings. The practice work is supplemented with lectures and demonstrations.  
 6 hrs., second half-year; 2 units. M Tu, 8-11.
3. Shop Practice: Blacksmithing. Mr. INGRIM.  
 Principles of forging and welding; making and tempering hand tools; sharpening and repair of farm implements.  
 6 hrs., second half-year; 2 units. W Th, 8-11.
101. Farm Machinery and Farm Motors. Professor DAVIDSON.  
 Economics of farm machinery, mechanics of machines, materials of construction. The development, construction, functions, adjustment, operation, and repair of farm machinery. The production and transmission of power. Principles of draft. The study of the horse as a motor; gasoline and oil engines; electric power; tractors. Laboratory work will consist of the study, operation, and adjustment of the machines discussed in the classroom.  
 8 hrs., second half-year; 4 units. Lectures: Sec. I, Tu Th, 8; Sec. II, Tu Th, 9. Laboratory: Sec. I, M F, 8-11; Sec. II, M, 1-5; Tu, 3-5; Sec. III, W, 9-11; F, 1-5.
102. Dairy Mechanics. Professor DAVIDSON and Mr. FLETCHER.  
 Conducted in coöperation with Division of Dairy Industry. Lectures on the management and repair of steam boilers and gas engines, electric motors, pumps, refrigerating machinery, creamery machinery; construction of cold storage rooms. Practice work in soldering, babbitting, pipe fitting, erection of shafting, flue fitting and testing and the actual operation of a creamery power plant.  
 4 hrs., second half-year; 2 units. Hours to be arranged.

---

**FORESTRY**

1. Elements of Forestry. Professor MULFORD.  
 The relations of forestry to the everyday life of a nation. The influence of forests upon water supply, climate, soil and public health; the products of the forest; the life story of the tree and the forest; general principles of forestry practice; protection of the forest from fire and other enemies; present organization of forestry work in the United States and Europe. Several lectures on fish and game protection will be given by Dr. H. C. Bryant, of the California Fish and Game Commission.  
 3 hrs., second half-year. Sec. I, M W F, 9; Sec. II, Tu Th S, 10.

**2. Forestry Methods.**

Assistant Professor METCALF.

Identification of common woods used by the carpenter and the cabinet maker; identification of the principal timber trees of the Pacific Coast; uses of various kinds of wood; tree seeds; forest nurseries; starting forests by direct seeding and by planting; measurement of the contents of felled and standing trees; methods of determining the value of standing timber. Lectures, laboratory, and field work.

5 hrs., first half-year; 3 units. Lectures, M W, 9; laboratory: Sec. I, M, 1-4; Sec. II, Th, 1-4.

Either course 1 or 2 may be taken separately without prerequisite; the two courses should meet the needs of students who wish a general knowledge of forestry and its methods, but who do not wish the detailed professional courses listed below.

**99. Practice in Forestry.**

Assistant Professor BRUCE in charge; Professors MULFORD and MASON, and Assistant Professor PRATT.

Practice in scaling and estimating timber and the study of its growth; timber survey of a large tract; detailed study of logging and milling operations; field instruction in silviculture; collection of data for a working plan.

Eleven weeks, summer camp; 6 units. To be held in the pine region of the Sierra or in the redwood region, near large logging operations.

**Woodsmanship.**

While in camp for course 99, instruction in woodsmanship will be given. Students who make forestry their major subject will be required to become reasonably proficient in woodsmanship. No credit.

**101. Forest Mensuration.**

Assistant Professor BRUCE.

The measurement of saw logs and other manufactured products, of standing timber, and of the growth of trees and stands.

6 hrs., second half-year; 3 units. Lectures, M W, 11; laboratory and field work, Tu, 1-4.

**104. Silviculture: Forest Ecology and Natural Reproduction.**

Professor MULFORD.

The influence of site on the forest and of the forest on site; the behavior of trees as members of a forest community; forest description; the methods of reproducing the forest without planting or sowing; the care of the crop during its growth; timber scale marking.

7 hrs., second half-year; 5 units. Lectures, Tu Th F S, 8; field work, S, 9-12.

106. **Silviculture: Artificial Reproduction.** Assistant Professor METCALF.  
Tree seeds; direct seeding; the forest nursery; forest planting; woodlot and windbreak planting; fixation of sand dunes.  
4 hrs., first half-year; 2 units. Lecture, F, 10; laboratory or field work, Tu, 1-4.
108. **Timber Trees and Forest Regions.** Assistant Professor METCALF.  
Brief survey of the forest regions of the world; detailed account of the forest regions of the United States and Canada; the distribution, importance, and silvical characteristics of the leading timber trees of the United States and Canada, and the identification of such of these as do not grow in California. (The identification of California trees is given in Botany 104A.)  
6 hrs., first half-year; 3 units. Lectures, Tu Th, 8; laboratory, S, 8-12.
110. **Forest Protection.** Professor MASON.  
The protection of forests from fire, insects, fungi, trespass, etc.  
5 hrs., second half-year; 3 units. Lectures, Tu Th, 10; conference, W, 1-4.
112. **Forest Utilization.** Assistant Professor PRATT.  
The manufacture, seasoning, grading, and care of rough and finished lumber; the principal industrial uses of lumber; minor wood-using industries; utilization of products other than wood, such as forage, fish, and game.  
5 hrs., first half-year; 3 units. Lectures, Tu Th, 9; laboratory, F, 1-4.
114. **Wood Technology.** Assistant Professor PRATT.  
Identification of economic woods; physical, chemical and mechanical properties of wood; utilization of waste; technical forest products: wood preservation; paper pulp; destructive distillates.  
5 hrs., first half-year; 3 units. Lectures, M W, 11; laboratory, W, 1-4.
115. **Logging.** Assistant Professor BRUCE.  
The manufacture and transportation of saw logs from stump to mill.  
5 hrs., second half-year; 3 units. Lectures, M W, 9; laboratory, Th, 1-4.
118. **Forest Improvements.** Assistant Professor BRUCE.  
The construction and maintenance of forest trails, roads, bridges, and telephone lines.  
5 hrs., second half-year; 3 units. Lectures, Tu Th, 9; laboratory, F, 1-4.

120. Forest Finance and Organization. Professor MASON.  
Forest finance, including compound interest in forest calculations; appraisal of timber and forest soil; damages; taxation; timber bonds; timber insurance; regulation of timber cut; forest working plans.  
7 hrs., second half-year; 5 units. Lectures, Tu Th F S, 8; conference, S, 9-12.
122. Forest Economics, Administration, and History. Professor MASON.  
Timber supply of the world and nation, its amount, location, use, replenishment, etc.; economic situation of the lumber industry; National Forest administration; the application of the principles of scientific management to forest administration; forest policy and its expression in important forest laws; historical development of forestry.  
6 hrs., second half-year; 4 units. Lectures, M W F, 10; conference, M, 1-4.
128. Conference. Assistant Professor PRATT.  
Round-table discussions of forestry problems; individual topics of study will be assigned.  
3 hrs., first half-year, to be arranged. Open only to students with a major in forestry.
- 202A-202B. Research.  
Professors MULFORD and MASON, and Assistant Professors BRUCE, PRATT and METCALF.  
Individual advanced study and research in silviculture, forest management, forest engineering, forest utilization, wood technology, forest protection, or forest policy.  
3 to 6 hrs., throughout the year, to be arranged.

#### COURSES IN OTHER DEPARTMENTS

Industrial Hygiene. [See Hygiene 6.]  
Agrostology. [See Agronomy 108.]  
Forest Botany. [See Botany 104A.]  
Forest Insects. [See Entomology 114.]  
Surveying. [See Civil Engineering 1A-1B, 3, 102, 102C.]  
Tree Surgery. [See Landscape Gardening 108.]  
Strength of Materials. [See Civil Engineering 108ABC.]  
Elements of Steam Engineering. [See Mechanics 1A.]  
Elements of Electrical Engineering. [See Electrical Engineering 1B.]  
Principles of Accounting. [See Economics 14A-14B.]  
Factors of Industrial Efficiency. [See Economics 121.]  
Cost Accounting. [See Economics 161.]

## GENETICS

### 1. Principles of Breeding Plants and Animals.

Professor BABCOCK and Assistant Professor CLAUSEN.

Study of variation and heredity with reference to plant and animal improvement.

6 hrs., second half-year; 4 units. Two lectures, one recitation and one laboratory period per week. Lectures, Tu Th, 8. Recitations, Secs. 1, 2, M, 8; 3, 4, W, 8; 5, 6, F, 8. Laboratory, Sec. I, W, 2-5; II, Tu, 2-5; III, M, 2-5. Prerequisite: Botany 2, 3 and Zoology 1A.

### 120. Special Topics and Pro-seminar.

Professor BABCOCK and Assistant Professor CLAUSEN.

Individual study of selected topics, the results to be embodied in a report or thesis. Laboratory or field work with reading. Weekly meetings with reports and discussions on topics in genetics.

7 to 13 hrs., either half-year; 3 to 5 units. Pro-seminar, and laboratory or field work to be arranged. Prerequisite: course 1. May be repeated without duplication of credit with instructors' permission.

### 200. Research. Professor BABCOCK and Assistant Professor CLAUSEN.

Units and hours to be arranged.

## EXPERIMENTAL IRRIGATION

(Given at Davis)

### 120. Irrigation Practice.

Assistant Professor BECKETT.

Practical field problems in the preparation of land, conveyance, measurement and application of water to various crops.

7 hrs., second half-year; 3 units. Lecture, W, 10; laboratory, Sec. I, M F, 8-11; II, Tu, 3-5; W, 1-5; III, Tu, 1-4; S, 9-12. Prerequisite: Irrigation 113, Civil Engineering 1A or 1E.

### 121. Special Problems in Irrigation Practice.

Assistant Professor BECKETT.

The preparation of land and application of water to various crops. especially in relation to the rates of application, rate of flow of water over the land, and distribution of moisture in the soil following irrigation.

7 hrs., second half-year; 3 units. 1 hr. lecture, two 3-hr. periods field work, to be arranged.

Open to students who are taking or who have taken course 120.



## LANDSCAPE GARDENING AND FLORICULTURE

### 1. Plant Propagation.

Professor GREGG.

A study of the methods of securing and perpetuating desirable varieties of plants—seedage, division, layerage, cuttage, budding, and grafting. Lectures, reports, and practical exercises.

6 hrs., second half-year; 4 units. Lectures and recitations, M W F, 9; practice, five sections, I, F, 2-5; II, M, 2-5; III, W, 2-5; IV, Th, 2-5; V, Tu, 2-5.

### 99A. Practice in Landscape Gardening.

Professor GREGG and Assistant Professor STEVENS.

Summer course of six weeks arranged to give a general survey of the art of landscape gardening. Required of all students with a major in landscape gardening at the end of the junior year.

Beginning the day after Commencement; 6 units.

### 99B. Practice in Floriculture.

Mr. CAREY.

Summer course of six weeks, arranged to give a general survey of the field of commercial floriculture, or to meet the needs of individual students. Required of all students with a major in floriculture at the end of the junior year.

Beginning the day after Commencement; 6 units.

### 101. The Ornamentation of Home Grounds.

Professor GREGG and Assistant Professor STEVENS.

The principles of design as applied to home grounds, together with the correct use of the best plant materials for such areas. Lectures, assigned readings, and reports.

2 hrs., second half-year. M W, 10.

### 103. The Theory and Aesthetics of Landscape Gardening.

Professor GREGG.

The different styles of landscape art and the principles governing correct design.

6 hrs., first half-year; 4 units. Lectures, M W F, 9; drafting, W, 2-5. Required of all students with a major in landscape gardening, and open to students in architecture and engineering.

### 104A-104B. Plant Materials.

Assistant Professor STEVENS.

The form, habit, texture, and adaptations of trees, shrubs, vines, and herbaceous plants with reference to their value and use in landscape design.

6 hrs., throughout the year; 2 units each half-year. First half-year, Tu, 8-10; S, 8-12; second half-year, W, 9-11; S, 8-12. Prerequisite: Botany 2 and 3.

## 28 *Agriculture—Landscape Gardening and Floriculture*

### 104c. Plant Materials.

Assistant Professor STEVENS.

Advanced study of plant adaptation.

6 hrs., first half-year; 2 units. W, 9-12; Th, 8-11.

### 105. Elementary Landscape Gardening. Assistant Professor STEVENS.

The simpler problems of design with special reference to small areas. their reconstruction and improvement, from paced, chain, and plane table surveys, together with reports, estimates, and sketches.

10 hrs., second half-year; 4 units. Lecture, M, 1; drafting, M W F, 2-5. Prerequisite: courses 103 and 104A.

### 106A-106B. Advanced Landscape Gardening.

Professor GREGG.

The more advanced problems of design and reconstruction from topographic and transit surveys as offered by the larger areas of parks, playgrounds, and country estates, with detailed plans, reports, and estimates.

12 hrs., throughout the year; 4 units each half-year. M, 9-12; Tu Th F, 2-5. Prerequisite: course 105.

### 107. History and Literature.

Assistant Professor STEVENS.

The history and literature of landscape gardening with special reference to early influences as they govern modern design.

2 hrs., first half-year. Lectures, M F, 1. Required of all students with a major in landscape gardening, and open to students in architecture and engineering.

### 108. Tree Surgery.

Mr. CAREY.

The most approved methods of caring for ornamental trees; the technical details of planting, pruning, and spraying, bolting, chaining, and cavity work; shade tree legislation and the duties of shade tree commissions and tree wardens.

4 hrs., first half-year; 3 units. Lectures, W, 1; laboratory, F S, 8-11.

### 109. Home Floriculture.

Assistant Professor STEVENS.

The propagation and culture of the more common annuals, herbaceous perennials and bulbous plants grown in California gardens; the preparation of soils and the planting of flower beds; the use of fertilizers and the preparation and application of spraying materials. Lectures, assigned reading, garden and greenhouse work.

5 hrs., second half-year; 2 units. Lectures, Tu Th, 11; laboratory, Tu, 2-5.

### 102A-102B. Commercial Floriculture.

Mr. CAREY.

The growing of the principal florists' crops on a commercial scale, both under glass and in the field. Lectures, reports, greenhouse, and field work.

6 hrs., throughout the year; 4 units each half-year. Lectures, M W F, 1; laboratory, Tu, 2-5. Prerequisite: course 1, Botany 2 and 3.

**201. Modern Civic Art.**

**Professor GREGG.**

Advanced problems in design with special reference to city parks, municipal park systems, recreation areas, civic centers and other civic features, as they form an intimate part of the city plan as a complete whole. Lectures, outside reading, and the preparation in various forms, of plans, specifications, estimates and reports.

24 hrs., first half-year; 8 units. Hours for consultation and criticism to be arranged. Allied subjects in engineering and architecture and other departments of the University, as recommended by the instructor, should be elected to parallel this course.

**202A-202B. City and Town Planning.**

**Professor GREGG.**

Advanced problems in planning and designing. The economic and aesthetic problems involved in the systematic planning and development of American cities. The progress of all phases of city and town planning in this and European countries is made the basis of all lectures and outside reading. Extensive, practical projects are outlined and plans and specifications prepared for the development of new cities and towns and the replanning of others for their best economic and aesthetic development.

24 hrs., throughout the year; 8 units each half-year. Hours to be arranged. Recommended allied subjects as offered by other departments of the University must parallel this course.

---

**NUTRITION**

**2. Pure Food and Drug Laws and their Operation.**

**Associate Professor LEA.**

The history of food legislation; critical discussion of national, state, and municipal laws on food inspection and control; the use of preservatives; adulteration and misbranding of foods; human foods and those for cattle and poultry. Lectures and recitations.

2 hrs., first half-year. M W, 8.

**99. Practice in Nutrition.**

**Professor JAFFA.**

Arrangement for practice course requirements for students whose major is nutrition may be made by consultation with the head of the division.

**106. Feeds and Feeding.**

**Professor JAFFA.**

The composition and use of cattle and poultry foods; compounding of rations; practical application of the principles of animal nutrition to the rational feeding of farm animals. Lectures and recitations.

2 hrs., first half-year; 2 units. Tu Th, 1. Prerequisite: inorganic chemistry.

109. Laboratory Course in Dairy Chemistry. Mr. ALBRO.  
Qualitative chemical, and microscopical methods for examination of milk, butter, other dairy products and commercial milk foods, and detection of preservatives and adulterants.  
7 hrs., first half-year; 3 units. Laboratory, M W, 1-4; 1 hr. lecture to be arranged. Prerequisite: Chemistry 5.  
10 hrs., first half-year; 4 units. By special arrangement.
114. Fundamentals of Nutrition. Assistant Professor MATTILL.  
Designed to give the general student a familiarity with the nature and functions of food, and the mechanism involved in its digestion and utilization.  
2 hrs., first half-year. Tu Th, 2. Prerequisite: inorganic chemistry.
116. Foods and Food Products. Professor JAFFA.  
A detailed study of food materials, their physiological values and economic importance. Discussion of standards and dietaries.  
2 hrs., second half-year. Tu Th, 2. Prerequisite: inorganic chemistry; organic chemistry recommended.
117. Laboratory Course in Food Analysis.  
Assistant Professor MATTILL and Mr. ALBRO.  
Chemical and microscopical methods for examination and analysis of foods, and methods for detection of adulteration. Nature of the materials studied will depend upon the interest and preference of the student. Opportunities for advanced work may be offered.  
7 or 10 hrs., either half-year; 3 or 4 units. Hours to be arranged. Prerequisite: Chemistry 5.
119. Advanced Course in Food Chemistry.  
Associate Professor LEA and Mr. ALBRO.  
A critical study of methods of determining the purity and quality of food products with special reference to the requirements of food and drug laws.  
7 hrs., second half-year; 3 units. Lecture to be arranged; laboratory, M W, 1-4.  
9 hrs., laboratory; 1 hr. lecture; 4 units; by special arrangement. Prerequisite: course 117 or Agricultural Chemistry 101A-101B.
120. Pro-seminar in Nutrition. Professor JAFFA.  
A critical study of the methods of feeding large groups and a discussion of the problems involved in the management of the commissary departments of institutions, industrial and agricultural organizations, camps, etc.  
2 hrs., second half-year, to be arranged.

126. Advanced Nutrition. Assistant Professor MATTILL.  
The chemistry and physiology of alimentation and a detailed study of the processes of metabolism involved in the nutrition and growth of animals.  
3 hrs., first half-year, to be arranged. Prerequisite: Chemistry 1A-1B, 8A-8B; Physiology, and Agricultural Chemistry 101A-101B recommended.
127. Laboratory Course in Advanced Nutrition. Assistant Professor MATTILL.  
A study of digestion and metabolism, with practice in nutrition experiments on animals and man. Designed to accompany course 126.  
6 hrs., first half-year; 2 units. Hours to be arranged. Prerequisite: Chemistry 1A-1B, 5, 8A-8B; Physiology, and Agricultural Chemistry 101A-101B recommended.
129. Problems in Nutrition and Food Chemistry. Professor JAFFA, Assistant Professor MATTILL and Mr. AIBRO.  
Hours and credit to be arranged. Thesis work may be included in this course.
230. Seminar in Foods and Nutrition. Professor JAFFA.  
Discussion of recent work in food chemistry and feeding experiments with the interpretation of laboratory results. Nutrition aspects of the processes of manufacturing and preserving foods.  
2 hrs., first half-year, to be arranged.
231. Research in Food Chemistry and in Nutrition. Professor JAFFA and Assistant Professor MATTILL.  
Hours and credit to be arranged.
232. Seminar in Nutrition and Metabolism. Assistant Professor MATTILL.  
Discussion of original papers in recent journals as a stimulus to further investigation.  
2 hrs., bi-weekly, second half-year; 1 unit.

---

## OLERICULTURE

(Given at Davis)

101. Vegetable Gardening. Associate Professor ROGERS.  
General principles of vegetable gardening; detailed directions for the production and marketing of vegetables under California conditions, supplemented by practical work in the garden.  
8 hrs., second half-year; 4 units. Lectures, Tu, 11; W, 10; 6 hrs. practicums to be arranged.
201. Advanced Work in Vegetable Gardening. Associate Professor ROGERS.  
Hours and credit to be arranged.

**PLANT PATHOLOGY**

99. Practice course. Professor SMITH and Associate Professor HORNE.

Students with a major in plant pathology should register for this course not later than the middle of the junior year or after completing course 120. The course may be given either during the college year or in vacation, according to the material available and the circumstances of the individual student. The work will consist mainly in trips to various parts of California where the student may make field studies upon the nature, economic importance and practical control of representative plant diseases. 6 units. Not required of students with a major in plant pathology who have completed Agronomy 99, Citriculture 99, Pomology 99 or Soils 99.

120. The Diseases Affecting Cultivated Plants in California.

Associate Professor HORNE and Assistant Professor E. H. SMITH.

Lectures and laboratory studies on diseases of economic plants. A beginning course required of juniors whose major is plant pathology but intended also for other students who desire a general idea of the subject.

8 hrs., first half-year; 4 units. Lectures, Tu Th, 8; laboratory, section I, Tu Th, 9-12; II, Tu Th, 1-4. Prerequisite: junior standing in the College of Agriculture or a reasonable equivalent.

121. Special Undergraduate Study. Associate Professor HORNE.

A course for students who wish to do further laboratory work after completing course 120.

Second half-year; hours and credit to be arranged in each case. Prerequisite: course 120.

- 122A-122B. Advanced Course.

Professor SMITH, Associate Professor HORNE, and Assistant Professor E. H. SMITH.

The principles of pathology, nature of disease, and the chief disease-inciting influences; disease-producing organisms, their development, activities and relation to host plants by means of microscopic, cultural, histological, and infection methods. Systematic review of important diseases. Lectures, laboratory, and collateral reading. Required of seniors whose major is plant pathology.

8 hrs., throughout the year; 4 units each half-year. Lectures, M W, 8; laboratory, M W, 9-12. Prerequisite: course 120 and Botany 105A.

- 125A-125B. Special Topics.

Professor SMITH, Associate Professor HORNE, and Assistant Professor E. H. SMITH.

Laboratory or field study of an assigned topic, with preparation of a thesis.

2 units, either half-year.

126A-126B. Pro-seminar.

Professor SMITH, Associate Professor HORNE, and Assistant Professor E. H. SMITH.

Papers and discussions by members of the class on various topics of interest in connection with work in the various courses. Required of all students whose major is plant pathology. Open to other students taking courses 121, 122, or 230.

1 hr., throughout the year. W, 4.

230. Graduate Research.

Professor SMITH, Associate Professor HORNE, and Assistant Professor E. H. SMITH.

Original investigations of special problems.

---

**POMOLOGY**

99. Practice in Pomology. Assistant Professor TAYLOR and Mr. SWEET.

A summer course intended to familiarize the student with orchard practice and fruit-handling as carried on in some of the principal fruit districts of the state. Details will be arranged to suit the needs and requirements, as far as possible, of individual students. 6 units. Required of all students with a major in pomology at the close of the junior year. Arrangements for registration must be made with the Head of the Division before April 15.

101. General Principles of Fruit Growing.

Assistant Professor TAYLOR and Mr. SWEET.

Lectures and recitations.

3 hrs., first half-year. M W F, 9. Required of all juniors with a major in pomology. Open to juniors with a major in citriculture and viticulture and to a limited number of other juniors by special permission.

102. Orchard Fruits. Assistant Professors TAYLOR and HENDRICKSON.

Deciduous tree fruits and nuts; their classification, propagation, planting, management. Care of orchards, adaptability of tree fruits to California and Pacific Coast conditions. Attention will also be given to small fruits. Lectures and recitations.

3 hrs., first half-year. M W F, 10. Required of seniors with a major in pomology. Prerequisite: course 101.

103. Orchard Practice.

Assistant Professor HENDRICKSON.

A laboratory course designed to give the student actual practice under orchard and field conditions in the various operations of deciduous fruit production; propagation, planting, pruning, spraying, etc. Given at Davis.

9 hrs., second half-year; 3 units. W F, 1-5:30. Required of all juniors with a major in pomology. Prerequisite: course 101.

**104. Fruit Transportation, Storage and Marketing.**

Professor ——— and Mr. SWEET.

General principles underlying the harvesting, grading, packing, shipping, pre-cooling, storing, and marketing of fruits. The practices involved in the handling and movement of fruit crops, and their utilization. Lectures and recitations.

3 hrs., second half-year. M W F, 10. Prerequisite: course 101 or 120, or Citriculture 101 or 102, or Viticulture 116.

**105A-105B. Pro-seminar. Assistant Professor TAYLOR and Mr. SWEET.**

A study of pomological literature, experiment station and government publications bearing on pomological topics; the principles and methods of outlining and conducting experimental work; library references. Discussions and reports.

2 hrs., throughout the year. M, 3-5. Required of seniors and graduate students whose major is pomology. Not open to students in other divisions.

**106. Systematic Pomology.**

Assistant Professor HENDRICKSON.

A technical study of fruit varieties, their botanical and varietal relationships; description, identification scoring and judging. Laboratory work with informal lectures and recitations.

6 hrs., first half-year; 2 units. Th F, 1-4. Required of all seniors with a major in pomology. Prerequisite: course 101.

**107. Nuciculture.**

Assistant Professor TAYLOR.

Nut fruits, including the almond, walnut, pecan, chestnut, filbert and others. Classification, propagation, location and management of orchards, harvesting, marketing and utilization. Lectures and recitations.

3 hrs., second half-year. Tu Th S, 10. Prerequisite: course 101 or 120, or Citriculture 101 or 102, or Viticulture 116.

**120. General Pomology. Assistant Professor TAYLOR and Mr. SWEET.**

The principles underlying the production of the various fruits, their handling and marketing. For students who have not the time for the more technical courses. Not open to students whose major is pomology. Lectures, recitations, and laboratory work.

6 hrs., first half-year; 4 units. Lectures and recitations, M W F, 10; laboratory, section I, M, 1-4; II, W, 2-5; III, S, 9-12. Prerequisite: Botany 2 and 3. Open to sophomores by special permission.

**201. Research.**

Assistant Professor TAYLOR.

Open to graduate students who desire to write theses. Field or laboratory research with correlated reading.

Hours and credit to be arranged. Prerequisite: courses 101, 102, 103, and 104, or equivalent.



## **POULTRY HUSBANDRY**

(Given at Davis)

### **99. Practice in Poultry Husbandry.**

Associate Professor DOUGHERTY and Mr. LLOYD.

Practice in feeding and caring for pens of fowls, grinding and mixing feeds, caring for young chicks, running incubators, and all of the work necessary in the management of a poultry plant. Required of all students whose major is poultry husbandry. 6 units.

### **101. Poultry Husbandry.**

Associate Professor DOUGHERTY and Mr. LLOYD.

The feeding, housing, breeding, and general management of poultry; study of the egg; anatomy and physiology of poultry; parasites and sanitation.

5 hrs., second half-year; 3 units. Lectures, Th F, 11; laboratory, F, 2-5.

### **102. Poultry Management.**

Associate Professor DOUGHERTY and Mr. LLOYD.

A practice course in operating incubators, keeping records, hatching eggs, brooding chicks, feeding and caring for pens of fowls.

Second half-year; 3 units. Practice, M Tu W Th F S Sun, 8-9, 11-12, 4-5. Course 101 must precede or accompany this course.

### **104. Pro-seminar.**

Associate Professor DOUGHERTY and Mr. LLOYD.

Advanced study and discussion, including a review of literature.

4 hrs., second half-year; 2 units. Hours to be arranged. Prerequisite: courses 101 and 102.

### **105. Undergraduate Research.**

Associate Professor DOUGHERTY and Mr. LLOYD.

Original investigation of a problem in poultry husbandry, the results to be presented in a thesis.

Second half-year; 1 to 3 units. Prerequisite: courses 101 and 102; must be preceded or accompanied by course 104.

---

## **RURAL INSTITUTIONS**

### **201. Co-operation in Marketing.**

Professor MEAD.

Study of farmers' co-operative organizations, especially those organized for the purchase of farm supplies and selling of farm products; legislation of different countries designed to improve marketing facilities. Assigned readings and reports.

2 hrs., second half-year. Tu Th, 10.

## 36 *Agriculture—Rural Institutions; Soils and Fertilizers*

### 202. Rural Credits and Land Settlement.

Professor MEAD.

A study of the rural credit and land settlement policies of other countries and of the methods and policies needed to promote rural development in the United States. Assigned readings and reports.

2 hrs., first half-year. Tu Th, 10.

---

## SOILS AND FERTILIZERS

### 2. Soil Conditions and Plant Growth.

Professor LIPMAN.

Fundamental principles involved in the relationships between soils and plant growth, including phases of soil chemistry, soil physics and soil bacteriology, and their relations to soil fertility.

3 hrs., first half-year. Tu Th S, 11. Prerequisite: Chemistry 1A-1B, Physics 1A-1B. Not open to students enrolled in the College of Agriculture.

### 122. Soil Chemistry as Related to Soil Fertility.

Professor LIPMAN and Assistant Professor GERICKE.

The chemical examination of soils, including short methods for some important determinations, and complete analyses. Laboratory and greenhouse exercises, recitations, and lectures.

9 hrs., first half-year; 3 units. M W F, 1-4. Prerequisite: Chemistry 1A-1B, 5, and Soil Technology 1.

### 123. Soil Bacteriology as Related to Soil Fertility.

Professor LIPMAN.

Laboratory experiments illustrating the relation of soil bacteria to soil fertility. Methods for the bacteriological examination of soils: greenhouse and field experiments. Recitations and lectures.

9 hrs., second half-year; 3 units. M W F, 1-4. Prerequisite: course 122, Bacteriology 1.

### 126A-126B. Pro-seminar in Soils and Soil Fertility. Professor LIPMAN.

Discussion of papers read, before the class, on various topics of research in soils by the several members of the seminar.

1-2 hrs., throughout the year. F, 4-6. Required of all students in courses 122, 123, 127.

### 127. Special Problems.

Professor LIPMAN.

Topics for undergraduate research in soils for senior theses or publications.

Hours to be arranged. Prerequisites on consultation with the instructor.

235. Research in Soils and Soil Fertility. Professor LIPMAN.  
Open to properly qualified graduate students who desire to write a thesis or prepare for publication a paper on some phase of the science of soils.  
Hours to be arranged. Prerequisite: all the courses in soils above outlined or equivalent training.
236. Seminar in Soils and Soil Fertility. Professor LIPMAN.  
Critical discussions of advanced research on topics of importance to the specialist in soils.  
1-2 hrs., to be arranged. Prerequisite: graduate standing in Soils and Soil Fertility.
- 

### SOIL TECHNOLOGY

1. Soil Technology. Professor SHAW and Assistant Professor A. SMITH.  
The origin, formation, classification, properties, and management of soils.  
6 hrs., second half-year; 4 units. Lectures, M W F, 1; laboratory, Sec. I, M, 2-5; II, W, 2-5; III, F, 2-5. Prerequisite: Geology 1A or Geography 1A, and Agricultural Chemistry 1 and 2.
99. Practice in Soil Surveying.  
Professor SHAW and Assistant Professor A. SMITH.  
A six weeks' study of the methods of classifying and mapping soils, consisting of practical field work in soil surveying; the construction of base maps; and the preparation of reports on the surveyed areas. Alkali soils and their reclamation, the adaptation of crops to soils, problems of irrigation, drainage, and soil management. The field work will be supplemented by an inspection trip, covering a large part of the state.  
6 units. Prerequisite: course 1.
101. Soils of the United States. Professor SHAW.  
A study of the soil types, series and provinces of the United States covering the origin, formation, classification, properties, and management of the soils with reference to crop production in various regions.  
3 hrs., second half-year. M W F, 10. Prerequisite: course 1.
102. Advanced Soil Physics.  
Professor SHAW and Assistant Professor A. SMITH.  
Physical composition of soils, soil structure, moisture relations and modifications. Laboratory and field work.  
7 hrs., second half-year; 3 units. Tu Th, 1-4 and 1 hr. of conference to be arranged. Prerequisite: course 1. May be repeated without duplication of credit.

103. Soils of California.

Professor SHAW.

The classification, origin, formation, general character and present utilization of the soils of California, including a study of each of the important soil series occurring in the state.

2 hrs., second half-year. M W, 9. Prerequisite: junior standing in College of Agriculture; open to other students by permission.

### VETERINARY SCIENCE

Courses in veterinary science may be counted either as major subjects in animal husbandry and dairy industry or as correlated courses, subject to the approval of the head of the divisions of animal husbandry and dairy industry.

100. Diseases of Farm Animals.

Professor HARING and Associate Professor HART.

The more common diseases of domesticated animals. For students in Berkeley who are unable to take advanced work in veterinary science at the University Farm.

5 hrs., second half-year; 3 units. Lectures, M W, 3; laboratory or clinic, F, 2-5.

111. Veterinary Science.

Assistant Professor HAYES.

The anatomy, physiology, and pathology of domesticated animals; the more common diseases of horses, cattle, sheep, and swine. (Given at Davis.)

8 hrs., second half-year; 4 units. Lectures, W, 8, Th, 9; laboratory, Th, 3-5, F, 1-5.

117. Bacteriology of Milk, Sanitary Milk Production and Dairy Inspection.

Professor HARING and Associate Professor HART.

The production and distribution of the various grades of milk from a sanitary standpoint. Students will be required to participate in the work of the University Dairy. The time will be about equally divided between bacteriological work in the laboratory and field work at the various dairies.

5 hrs., first half-year; 3 units. Lectures, Tu Th, 1; laboratory or clinic, Th, 2-5. Prerequisite: elementary bacteriology.

119. Thesis Course. Advanced Dairy Bacteriology.

Professor HARING, Associate Professor HART and Assistant Professor HAYES.

Original study in special topics. (Given at Berkeley and also at Davis.)

Hours and credit to be arranged. Prerequisite: Bacteriology 1 and course 117.

*Agriculture—Veterinary Science; Viticulture and Enology 39*

200. Research in Dairy Bacteriology, Dairy Sanitation and Animal Hygiene.

Professor HARING, Associate Professor HART and Assistant Professor HAYES.

Laboratory and field research on special topics. (Given at Berkeley and also at Davis.)

Hours and credit to be arranged.

- Veterinary Parasitology.

Associate Professor HERMS.

(See Entomology 116.)

---

**VITICULTURE AND ENOLOGY**

99. Practice in Viticulture and Enology.

Students whose major is in this division may satisfy the requirements of this course by six weeks special work in the zymological laboratory during the sophomore or junior year or by taking Course 99 in one of the following divisions: agronomy, pomology, citriculture or soil technology. The particular subject chosen must be selected by the student in consultation with the instructor in charge of his major subject.

116. Viticulture.

Professor BIOLETTI.

Methods of establishing and maintaining vineyards, with special reference to conditions existing in California.

3 hrs., second half-year. M W F, 9.

117. Ampelography and Viticultural Laboratory.

Study of the structure, physiology and diseases of the vine.

9 hrs., second half-year; 3 units. M W F, 1-4. Course 116 must accompany or precede this course.

112. Industrial Zymology: Fruit and Vegetable Products.

Assistant Professor CRUESS.

The nature and control of the micro-organisms and the chemical and physical principles concerned in the fermentation and preservation of fruit and vegetable products, especially unfermented fruit juices, canned fruits and vegetables, jellies, fruit acids, denatured alcohol, and vinegar. Lectures.

3 hrs., second half-year. M W F, 8.

114. Vinification.

Professor BIOLETTI.

Lectures on the principles and methods of wine-making.

3 hrs., first half-year. M W F, 9.

**115. Zymology: Fruit and Vegetable Products.****Assistant Professor CRUESS.**

The methods and principles of the manufacture of fruit and vegetable products, especially fruit juices, canned fruits and vegetables, jellies, citrus by-products, vegetable oils and fermented products, such as vinegar, wine, cider and lactic acid.

9 hrs., second half-year; 3 units. M W F, 1-4. Course 112 must accompany or precede this course. Prerequisite: Bacteriology 1.

**122. Enological Laboratory I.****Mr. ZION.**

Physical and chemical examination of grapes, and laboratory study of the processes of wine-making, wine handling and the microscopical examination of wine.

10 hrs., first half-year; 4 units. Lecture, F, 4; laboratory, M W F, 1-4. Course 114 must accompany or precede this course.

**199. Undergraduate Theses and Pro-seminar.****Professor BIOLETTI and Assistant Professor CRUESS.**

For undergraduate students in the preparation of senior theses and as an introduction to research work. Each student will pursue a special investigation and report the results in a carefully prepared paper. Subject and time to be chosen by the student with the advice and approval of the instructor.

The following courses are designed for students who have finished the corresponding undergraduate courses and who desire to study special problems. The hours and units are to be arranged with the instructors concerned.

**233. Research in Viticulture.****Professor BIOLETTI.****236. Research in Enology.****Professor BIOLETTI.****237. Research in Zymology.****Professor BIOLETTI and Assistant Professor CRUESS.**

**ANATOMY**

HERBERT MCLEAN EVANS, B.S., M.D., Professor of Anatomy.

ROBERT O. MOODY, B.S., M.D., Associate Professor of Anatomy.

GEORGE W. CORNER, A.B., M.D., Assistant Professor of Anatomy.

PHILIP E. SMITH, Ph.D., Instructor in Anatomy.

KATHERINE J. SCOTT, A.B., M.D., Instructor in Anatomy.

The department is equipped for investigation in the fields of systematic anatomy, neurology, histology and embryology. The equipment includes a library of the chief anatomical periodicals and monographic literature and special facilities for experimental work.

*Microscopic Anatomy***101. Histology and Microscopic Organology.**

Professor EVANS, Dr. SCOTT, and —.

The course will be given from the viewpoint of the activities of the living cell, the relation between structure and function being held uppermost. At the same time opportunity will be afforded for a comprehensive review of human and comparative histology. Individual loan collections will supplement the laboratory work.

First half-year. 3 laboratory periods, 3 lectures a week; 6 units. M W, 8-12; F, 8-11; S, 11-12. Prerequisite: chemistry, physics and elementary biology (zoology, botany, physiology.)

**103. Organs of Special Sense and Neurology.**

Dr. SMITH and Dr. SCOTT.

The macroscopic and microscopic architecture of the central nervous system and the organs of special sense. The neuron studied in course 101 will be used as the unit in the construction of the nervous system, with a view to tracing origin, development, and final arrangement of the different pathways for nerve impulses.

5 hrs., second half-year; 3 units. Lectures, F, 8, 1; laboratory, F, 2-5.

*Systematic Human Anatomy***102. General Human Anatomy.**

Associate Professor MOODY.

A study of the human body. Demonstrations and laboratory study of prepared human dissections, models, and microscopic slides. For students of public health and physical education. Other non-medical students may be admitted by arrangement with instructor, if size of class permits. A deposit of \$2.50 will be required to cover cost of material; any unused portion of this sum will be returned.

5 hrs., second half-year; 3 units. Demonstration, Tu Th, 9; laboratory W, 1-4. Prerequisite: Zoology 1A or Physiology 1.

**105. Systematic Human Anatomy.**

Associate Professor MOODY, Assistant Professor CORNER, and Dr. SMITH.

The systematic dissection of the human body. For convenience the work is divided into thirds or "parts," to wit: head and neck, arm and thorax, leg and abdomen. To better facilitate instruction students in the Medical School are required to finish each part in accordance with a prescribed time schedule.

27 hrs., first half-year; 10 units. Tu Th, 8-12; S, 8-11; M Tu W Th F, 1-5.

**108. Regional and Topographical Anatomy.**

Associate Professor MOODY and Assistant Professor CORNER.

Living models, special dissections, and sections of the body are used to enable the student to become more familiar with structural relations and to assemble information obtained in preceding dissections. Students who are accepted for course 213 may substitute that course for course 108.

4 hrs., first half-year; 3 units. Sec. I, Tu, 8; F, 8-11; Sec. II, Tu, 9; W, 1-4. Prerequisite: course 105.

**109. Anatomy for Physicians and Advanced Students.**

Professor EVANS, Associate Professor MOODY and Assistant Professor CORNER.

Hours to be arranged.

**209. Human Embryology.**

Professor EVANS.

A laboratory study of specific problems in the development of the human embryo. Access will be given to a considerable private collection and its related data. Open only to students familiar with vertebrate embryology.

Hours to be arranged.

**\*210. History of Anatomy.**

Assistant Professor CORNER.

Informal conferences upon the history and literature of anatomy and its relation to the progress of general medical knowledge, illustrated by old books and figures. Class limited to six students.

1 hr., first half-year, to be arranged.

**211. Physiological Anatomy of Reproduction.**

Assistant Professor CORNER.

Informal conferences and demonstrations. The oestrous cycle, implantation, comparative placentation, etc. Outside reading required.

1 hr., first half-year, to be arranged.

---

\*Not to be given, 1917-18. The course will be given alternately with course 211.



**212. Experimental Embryology.**

**Dr. SMITH.**

Conferences and original work by the experimental method, chiefly with amphibian material on problems of developmental mechanics.

Second half-year. Hours to be arranged.

**213. Original Investigation.**

**Professor EVANS and Members of the Staff.**

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff. Time devoted by the majority of the second-year medical class to course 108 may be applied here by those specially qualified.

Hours to be arranged.

**214. Seminar.**

**Professor EVANS.**

Topics will be discussed by the staff and those electing the course. For the year 1917-18, topics will be chosen from the field of human and comparative embryology.

Hours to be arranged.

## ANTHROPOLOGY

<sup>1</sup>A. L. KROEBER, Ph.D., Associate Professor of Anthropology and Curator of the Anthropological Museum.

ROBERT H. LOWIE, Ph.D., Associate Professor of Anthropology.

T. T. WATERMAN, Ph.D., Assistant Professor of Anthropology.

EDWARD W. GIFFORD, Associate Curator of the Anthropological Museum.

THEODORE GRAY, A.B., LL.B., Teaching Fellow in Anthropology.

Students who expect to take only one course in anthropology during their college career are advised to elect courses 1A, 1B.

*Honor-students in the upper division.*—Course 1A-1B is prerequisite to honor-work in the upper division. The requirement of 24 units in major courses must normally include courses 102A, 103A, 103B, 105A, 105B, and 199A-199B.

## LOWER DIVISION COURSES

- 1A. General Anthropology: Origin and Antiquity of Man. The Staff.  
 Man as an animal; heredity; races and their distribution; earliest culture.  
 3 hrs., first half-year. M W F, 9, and section meetings.
- 1B. General Anthropology: Origin and Development of Civilization. The Staff.  
 The source and growth of institutions, arts, customs, industries, language, and religion.  
 3 hrs., second half-year. M W F, 9, and section meetings.

## UPPER DIVISION COURSES

## MAJOR COURSES

- 102A. Ethnology: Growth of Institutions. Associate Professor LOWIE.  
 The sexes in society; marriage, kinship, exogamy, and descent; totemism; caste; wealth and its influence; gentile, political, and constitutional organization.  
 3 hrs., first half-year. M W F, 2.
- 103A. Ethnography. Associate Professor LOWIE.  
 The native tribes and nations of Oceania and Africa. Lectures and conferences.  
 3 hrs., first half-year. M W F, 4.

---

<sup>1</sup> In residence first half-year only, 1917-18.

- 103B. Ethnography. Associate Professor LOWIE.  
The peoples and cultures of Europe, Asia, and America.  
3 hrs., second half-year. M W F, 4.
- 105A. Ethnology of North America. Associate Professor KROEBER.  
The native peoples and indigenous civilizations of America north of Mexico. Lectures and conferences.  
5 hrs., first half-year. M W F, 10, and consultation hours to be arranged.  
Open to students who have received at least second grade in courses 1A, 1B.
- 105B. Ethnology of Mexico and Central America. Assistant Professor WATERMAN.  
The native peoples of Mexico and Central America, past and present, and the more important archaeological sites. Lectures, recitations, and the preparation of a paper.  
3 hrs., second half-year. M W F, 2. Open to students who have received at least second grade in courses 1A, 1B.
- \*132. Anthropology of the Bible. Associate Professor KROEBER.  
The Old Testament as an historical document in the light of archaeology and anthropology.  
3 hrs., second half-year. M W F, 10.
137. Indians of California. Mr. GIFFORD.  
Origins and relationships of the natives; prehistoric remains; shell mounds. Tribal divisions; arts; customs, industries, and beliefs.  
3 hrs., second half-year. M W F, 9.
150. Phonetics. Assistant Professor WATERMAN.  
Classification of speech sounds and the structure and arrangement of the speech organs. Practice in recording phonetically several European, American Indian, and other languages, with native informants.  
2 hrs., second half-year. Tu Th, 2.
- \*151. Types of Linguistic Structure. Associate Professor KROEBER.  
The nature and peculiarities of speech, based on inductive examination of languages of different type.  
3 hrs., second half-year. M W F, 10.
- 199A-199B. Honor-course. The Staff.  
Special problems by individual students, with credit of not less than 3 units.  
3 hrs., throughout the year. M W, 11, and other hrs. to be arranged.
- 
- \*Not to be given, 1917-18.

## FREE ELECTIVE COURSE

38. Ancient Egypt. Mr. GIFFORD.  
Antiquities, customs, art, architecture, and culture of ancient Egypt.  
1 hr., first half-year. M, 7 p.m.

## GRADUATE COURSES

- 206A-206B. Anthropological Seminar. The Staff.  
First half-year, religion; second half-year, social organization.  
3 hrs., throughout the year. M, 7-9 p.m.
- 207A-207B. Special Work in Anthropology. The Staff.  
Research work on special problems by individual students according  
to their qualifications and needs, with credit proportionate to the  
work done.  
At least 2 hrs., throughout the year. M W, 11.
- 226A. Heredity and Civilization. Associate Professor KROEBER.  
Heredity and non-hereditary agencies; biological and social factors;  
problems of capacity and achievement; the borderland between  
animal and man; the physiological and psychological basis of civil-  
ization; origins and development of institutions and knowledge.  
3 hrs., first half-year. Hours to be arranged.
- 234A. Seminar in Mexican Archaeology. Assistant Professor WATERMAN.  
Investigation of problems connected with the ancient peoples of the  
Mexican Plateau.  
2 hrs., first half-year. Th, 3-5.
- 234B. Seminar in Central American Archaeology. Assistant Professor WATERMAN.  
Special problems in connection with the Maya and related civilizations  
of Southern Mexico and Central America.  
2 hrs., second half-year. Th, 3-5.

## ARCHITECTURE

- \*JOHN G. HOWARD, Fellow in the American Institute of Architects, Professor of Architecture and Director of the School of Architecture.  
 WILLIAM C. HAYS, B.S., Assistant Professor of Architecture.  
 WILLIAM E. LELAND, B.S., Lecturer in Architectural Mechanics.  
 WARREN C. PERRY, B.S., Instructor in Architecture.  
 M. EARL CUMMINGS, Instructor in Modeling.  
 VALEEE DE MARI, Instructor in Water-coloring and Pen and Ink Drawing.

*Honor-students in the Upper Division*—The student must have received honorable mention with the junior certificate, or, in case of seniors, have completed the junior work in architectural design with distinction.

1. Candidates for honors must be registered in the architectural curriculum as laid down in the Circular of Information.
2. At the beginning of each half-year each candidate will be required to submit his study-list to the head of the department for approval, and thereafter work in close touch with the various instructors, attending such conferences and making such reports as may be asked for.
3. Under the "value" system, as defined in the Circular of Information, honor-students will be encouraged to proceed to the more advanced work in design as they show fitness for it.
4. Honors in architecture require distinguished excellence in design and thoroughly satisfactory work in construction.

## LOWER DIVISION COURSES

‡†5A-5B. History of Ancient and Classic Architecture.

Professor HOWARD.

A general survey of the history of ancient and classic architecture, with an analytical study of its character, illustrated by lantern slides. Open to all students especially interested in architecture and as a free elective to upper division students.

1 hr., throughout the year. Tu, 2.

\*Absent on leave, 1917-18.

†Courses 5A-5B, 5C-5D, 5E-5F will not be given in 1917-18; in their place students will take Philosophy 36, Greek 46 or 49, or any other course which has the approval of the department of architecture.

‡ The full course in History of Architecture and Allied Arts (5A-5B, 5C-5D, 5E-5F) is covered in three years, the courses being given in succession, one each year.

## †‡5C-5D. History of Mediaeval and Renaissance Architecture.

Professor HOWARD.

The architecture of the Middle Ages and the Renaissance period illustrated by lantern slides. Open to all students specially interested in architecture and as a free elective to upper division students.

1 hr., throughout the year. Tu, 2.

## †‡5E-5F. History of Modern Architecture and Allied Arts.

Professor HOWARD.

A detailed study of modern architecture and allied arts, illustrated with lantern slides. Open to all students especially interested in architecture and as a free elective to upper division students.

1 hr., throughout the year. Tu, 2.

## 11. The Classic Orders of Architecture.

9 hrs., second half-year; 3 units. Prerequisite: Drawing 3A, 3B, 3C.

## 12A-12B. Water Color.

Mr. DE MARI.

Architectural rendering in water color.

3 hrs., throughout the year; 1 unit each half-year; elementary, M, 1-4; advanced work, Th, 8-11. Prerequisite: Graphic Art 14A-14B.

## 13A-13B. Pen and Ink.

Mr. DE MARI.

Architectural subjects rendered in pen and ink.

3 hrs., throughout the year; 1 unit each half-year. Elementary, F, 1-4; advanced, Th, 1-4. Prerequisite: Graphic Art 14A-14B.

## 14A-14B. Modeling.

Mr. CUMMINGS.

Modeling of architectural ornament.

3 hrs., throughout the year; 1 unit each half-year. Two sections: I, Tu, 8-11; II, F, 8-11.

NOTE.—Courses 12A-12B, 13A-13B, 14A-14B may be continued and additional credit received.

## UPPER DIVISION COURSES

## 101A-101B. Elements of Architectures.

Elementary architectural design. Course 106A-106B must be taken concurrently.

9 hrs., throughout the year; 3 units each half-year. Prerequisite: Drawing 3A, 3B, 3C, and junior standing.

†Courses 5A-5B, 5C-5D, 5E-5F will not be given in 1917-18; in their place students will take Philosophy 36, Greek 46 or 49, or any other course which has the approval of the department of architecture.

† The full course in History of Architecture and Allied Arts (5A-5B, 5C-5D, 5E-5F) is covered in three years, the courses being given in succession, one each year.

102A-102B. Planning.

Mr. PERRY.

Fundamental problems in planning. Course 106C-106D must be taken concurrently.

12 hrs., first half-year, 4 units; 15 hrs., second half-year, 5 units.

Prerequisite: courses 11, 101A-101B.

105A-105B. Historical Drawings in Ancient and Classic Architecture.

Assistant Professor HAYS and Mr. PERRY.

3 hrs., throughout the year; 1 unit each half-year. Course 101 or 102 must accompany this course.

\*105C-105D. Historical Drawings in Conjunction with Course 5C-5D.

Professor HOWARD and Mr. PERRY.

3 hrs., throughout the year; 1 unit each half-year. Course 101 or 102 must accompany this course.

\*105E-105F. Historical Drawings in Conjunction with Course 5E-5F.

Professor HOWARD and Mr. PERRY.

3 hrs., throughout the year; 1 unit each half year. Course 101 or 102 must accompany this course.

106A-106B. Theory of Architecture.

Mr. PERRY.

Pro-seminar, prescribed for students in course 101A-101B.

1 hr., throughout the year. W, 3.

106C-106D. Theory of Architecture.

Mr. PERRY.

Continuation of course 106A-106B. Pro-seminar, prescribed for students in course 102A-102B.

1 hr., throughout the year. Th, 5.

108A-108B. Architectural Mechanics.

Mr. LELAND.

Mechanical and electrical installation and equipment in relation to architecture. (a) Heating and ventilating; (b) power, lighting, elevators, vacuum cleaning, automatic sprinklers, etc.

2 hrs., throughout the year. M W, 8.

110. Housing.

Assistant Professor HAYS.

Lectures on the house—isolated and collective: its historic and aesthetic development; its elements and their arrangements; its equipment.

1 hr., second half-year. Th, 2.

---

\*Not to be given, 1917-18.

## GRADUATE COURSES

- 203A-203B. Planning and Composition. Assistant Professor HAYS.  
Problems in planning and composition.  
24 hrs., throughout the year; 8 units each half-year. Conference hours,  
Tu Th, 3-4:30. Prerequisite: course 102A-102B.
204. Advanced Design. Assistant Professor HAYS.  
Advanced problems in planning and composition.  
45 hrs., first half-year; 15 units. Prerequisite: course 203A-203B.
- 206E-206F. Theory of Architecture. Assistant Professor HAYS.  
Continuation of course 106C-106D. Seminar prescribed to students in,  
course 203A-203B.  
1 hr., throughout the year. Th, 5.
- 207A-207B. Research and Master's Thesis. Assistant Professor HAYS.  
Hours to be arranged. Course 203A-203B must be taken concurrently.  
1 unit, first half-year; 4 units, second half-year. Prerequisite: grad-  
uate standing and course 102A-102B.
- 209A-209B. Professional Practice and Business Relations. Assistant Professor HAYS.  
Seminar in office practice, working drawings, specifications, and ethics.  
1 hr., seminar, 6 hrs. drafting, first half-year; 3 units; 2 hrs., seminar,  
second half-year; 2 units. Prerequisite: course 102A-102B or 101A-  
101B and graduate standing.
216. Graduate Thesis and Seminar. Assistant Professor HAYS.  
A course to be arranged individually with students looking toward a  
degree in architecture. Prerequisite: course 204.

## COURSES IN OTHER DEPARTMENTS

- Strength of Materials. [See Civil Engineering 118A-118B.]
- The Materials of Engineering Construction. [See Civil Engineering 8.]
- Framed Structures. [See Civil Engineering 107E-107F, 117.]
- Sewage Disposal and Water Supply. [See Civil Engineering 127.]
- Graphostatics. [See Drawing 105.]



## ASTRONOMY

ARMIN O. LEUSCHNER, Ph.D., Sc.D., Professor of Astronomy and Director of the Students' Observatory.

RUSSELL T. CRAWFORD, Ph.D., Associate Professor of Practical Astronomy.

STURLA EINARSSON, Ph.D., Instructor in Practical Astronomy.

FERDINAND J. NEUBAUER, Ph.D., Instructor in Astronomy.

WALLACE CAMPBELL, A.B., Teaching Fellow in Astronomy.

As part of the lower division courses special lectures are offered by the Director and Astronomers of the Lick Observatory.

Every graduate course may be taken as a seminar course by arrangement with the instructor.

*Honor-students in the Upper Division.*—The following courses are prerequisite to honor-work in the upper division: Mathematics, either 5, 8 and 9, or 3 and 4; Physics 1A–1B. In addition to these, Chemistry 1c and Geology 1A are recommended. A student in the honor-group may be recommended for honors in astronomy at graduation:

1. Upon presenting a satisfactory written report (review or criticism) of some astronomical work (theoretical or practical), an account of which has been printed in some standard astronomical periodical or other publication, or

2. Upon presenting a complete and satisfactory computation in orbit theory or eclipses, or

3. Upon presenting a completed report of some advanced practical work done by the student.

Candidates for honors must prepare a programme at the beginning of their candidacy in consultation with the member of the department designated to supervise their work. On approval of this plan of study, the student will proceed to its completion, attending conferences and making such reports of progress as may be requested.

Honor-students will be allowed much freedom in their studies. To justify this, the work which they do must be consistently of high quality. The department will recommend the exclusion from the honor-group of all students who do not maintain each half-year an average of at least sixty per cent of first and second grades in all their courses and who do not complete their courses in astronomy with high credit. Candidates must fulfill the requirements for a major in astronomy and must enroll for Astronomy 206. (Although this course is listed as a graduate course it may be taken by advanced undergraduates.) A reading knowledge of French and German is required.

An observatory fee of \$2.50 per half-year is charged in courses 2A–2E, 104A–104B, 105, 114.

## LOWER DIVISION COURSES

## 1-2. Elementary Astronomy.

Associate Professor CRAWFORD, Dr. NEUBAUER, and Mr. CAMPBELL.

A combination of courses 1 and 2A.

5 hrs., either half-year. The lectures and section work are taken as course 1; the observatory work is taken as course 2A.

## 1. Elements of Astronomy.

Associate Professor CRAWFORD.

An introductory course. General facts and principles underlying the science of astronomy in all its branches.

3 hrs., either half-year. First half-year, lectures, M W F, 10. Second half-year, lectures, Sec. I, M W F, 10; II, Tu Th S, 9. The classes will be divided into smaller sections in which recitations, examinations, and conferences will be conducted. In the second half-year a separate section, III, 2 hrs., will be conducted by Professor Leuschner for students who have the equivalent of the entrance requirements in mathematics and physics for the colleges of engineering.

## 2A-2E. Practice in Observing.

Dr. NEUBAUER and Mr. CAMPBELL.

These courses are supplementary to course 1 or 11 or 103A-103B, and are open to students who are taking or have taken any of these courses. The students may enroll for from 1 to 3 units by electing one or more of the divisions specified below.

All sections meet for organization on the first Thursday of the term at 7 p.m.

## 2A. Practical work at the observatory for beginners, with special emphasis on the elementary methods of determining time, latitude, and longitude. Constellation study. Descriptive observations of celestial objects.

3 hrs., either half-year; 1 unit.

## 2B. Practical work at the observatory for beginners, with special emphasis on astrophysical and photographic observations.

3 hrs., either half-year; 1 unit. Prerequisite: course 2A.

## 2C. Continuation of course 2A.

3 hrs., either half-year; 1 unit. Prerequisite: course 2A.

## 2E. The subject matter of courses 2A and 2C.

6 hrs., either half-year; 2 units.

## UPPER DIVISION COURSES

## FREE ELECTIVE COURSES

5. History of Astronomy. Associate Professor CRAWFORD.  
3 hrs., first half-year. M W F, 2. Prerequisite: course 1.
11. Modern Astronomy. Dr. EINARSSON.  
The stars and nebulae. Progress in astronomy through modern methods, especially spectroscopic and photographic.  
3 hrs., second half-year. M W F, 10. Prerequisite: course 1. For observatory work supplementary to this course students may elect course 2B.

## MAJOR COURSES

- 103A-103B. General Astronomy. Dr. EINARSSON.  
The general facts and principles underlying the science of astronomy in all its branches, developed and discussed in detail.  
3 hrs., throughout the year. M W F, 9. Prerequisite: Mathematics 5 and Physics 1A-1B. For observatory work in connection with this course students may elect one or more subdivisions of course 2 or 104A-104B, subject to the prerequisites announced.
- 104A-104B. Practical Astronomy. Professor LEUSCHNER.  
Lectures and observatory work. Practical work at the observatory with sextant, clock, chronograph, transit-and-zenith telescope, equatorial telescope, photographic telescope, reflector, altazimuth instrument. Computing.  
5 hrs., throughout the year; 3 units. Lectures and recitations, Tu Th, 9; observatory work, Tu, 7-10 p.m. Prerequisite: Mathematics 5, Physics 1A-1B, and either course 1 or 103A. The course should also be preceded by a course in differential calculus.
105. Nautical Astronomy. Dr. NEUBAUER.  
Astronomy as applied to navigation. Use of sextant, chronometer, nautical almanac, nautical tables. Determination of time, latitude, longitude on shipboard. Sailings. Great circle sailing. Lectures, computing, and practice work.  
5 hrs., first half-year; 3 units. Hours to be arranged with instructor. Prerequisite: course 1 or 103A; Mathematics C.
107. Method of Least Squares—Adjustment of Observations. Dr. EINARSSON.  
The fundamental principles and processes of the method of least squares and their application to the solution of astronomical, physical, and engineering problems.  
6 hrs., first half-year; 2 units. M W, recitation or lecture, 1-2, or practical applications, 1-4. Prerequisite: working knowledge of differential and integral calculus.

## 108. Interpolation, Use of Tables, and Mechanical Quadratures.

Dr. EINARSSON.

The more useful formulae of interpolation, and their application in the use of astronomical and other tables. Development of the formulae of numerical differentiation and integration and their application in the construction of tables. Practice in extensive numerical computations, with special aim at rapidity and exactness.

3 hrs., first half-year, to be arranged. Prerequisite: working knowledge of differential and integral calculus.

## \*110. The Theory of Astronomical Refraction.

Associate Professor CRAWFORD.

2 hrs., first half-year, to be arranged. Prerequisite: course 104A or 114.

## \*112. Ellipses.

Associate Professor CRAWFORD.

3 hrs., either half-year, to be arranged. Prerequisite: course 104A or 114.

## 116. Measurement and Reduction of Astronomical Photographs; Spectrograms.

Dr. EINARSSON.

3 hrs., second half-year, to be arranged.

## COURSES PRIMARILY FOR ENGINEERS

## 3. Surveyors' Course in the Elements of Spherical Trigonometry and Astronomy.

Dr. EINARSSON and Dr. NEUBAUER.

The principles of spherical trigonometry and astronomy adapted to the needs of students in the colleges of engineering. Computing.

3 hrs., second half-year; 1 unit. Four sections: I, M, 1-4; II, Tu, 1-4; III, W, 1-4; IV, Th, 1-4. Prerequisite: Civil Engineering 1A. Civil Engineering 1B to be taken concurrently.

## 114. Practical Astronomy.

Dr. EINARSSON.

The subject matter of course 104 more briefly presented, and adapted to the needs of students of civil engineering.

5-7 hrs., first half-year; 3 units. Lectures, Tu Th, 9, and one observatory period. The observatory is open for this course two evenings and one afternoon. The arrangement of the work depends so largely upon weather conditions that the student should reserve for this course several observatory periods. Prerequisite for students in the College of Civil Engineering: Astronomy 3 and Civil Engineering 3.

---

\* Offered in alternate years. Either course 110 or 112 will be given, 1917-18.

## GRADUATE COURSES

206. Theoretical Astronomy. Professor LEUSCHNER.  
3 hrs., first half-year. M W F, 10. Prerequisite: course 1 or 103A;  
Mathematics 4 or 109A-109B; ordinarily also Physics 105A. Open  
to advanced undergraduates.
207. Theoretical Astronomy. Professor LEUSCHNER.  
The relative accuracy of the various methods of determining pre-  
liminary orbits.  
3 hrs., second half-year. M W F, 10. Prerequisite: course 206.
- †208A-208B. Introduction to Celestial Mechanics. Professor LEUSCHNER.  
3 hrs., throughout the year. M W F, 9.
- †209. Special Perturbations. Associate Professor CRAWFORD.  
3 hrs., first half-year, to be arranged with instructor.
- †210A-210B. The General Perturbations of the Minor Planets after Han-  
sen, Newcomb, and Hill. Associate Professor CRAWFORD.  
Hours to be arranged.
- †212A-212B. Satellite Theory and Introduction to the Lunar Theory.  
Associate Professor CRAWFORD.  
Hours to be arranged. Prerequisite: course 206.
- †213. Selected Topics in Celestial Mechanics. Professor LEUSCHNER.  
Either half-year. Hours and credit to be arranged with the instructor.
214. Advanced Practical Astronomy. Dr. EINARSSON.  
5 hrs., either half-year; 3 units. M W, 11; M, 7-10 p.m. Prerequisite:  
course 104A-104B.
215. Advanced Study and Research. The STAFF.  
Critical discussion and review of current astronomical publications.  
Investigation of special problems to be selected according to the  
preparation and the needs of individual students.  
1 hr., either half-year, to be arranged.
- †218. Mathematical Theories in Higher Geodesy.  
Associate Professor CRAWFORD.
- †219. Physical Theories in Higher Geodesy.  
Associate Professor CRAWFORD.

---

† These courses form a series which the student can complete in about three years. From two to three of these courses are offered every half-year, the selection being based on the needs and the preparation of the graduate students in astronomy.

## COURSES IN OTHER DEPARTMENTS

Dynamics of Rotation. [See Physics 215.]	Professor SLATE.
Precession and Nutation. [See Physics 215A.]	Professor SLATE.
Spectroscopy. [See Physics 211-211C.]	Professor LEWIS.
Railroad Surveying. [See Civil Engineering 102]	Professor FOOTE.
Higher Surveying and Geodesy. [See Civil Engineering 105.]	Professor FOOTE.

## LICK OBSERVATORY

The Lick Observatory at Mount Hamilton forms a separate department of the University. The unrivaled facilities for advanced astronomical work which are offered by its fine equipment, in this favorable location, are too well known to require description here. The department is open to graduate students under regulations prescribed by the Regents. The degrees of Master of Arts and Doctor of Philosophy are offered to students who have fulfilled the required conditions. (See Announcement of the Graduate Division.) For information relating to graduate work at the Observatory intending students should address the Recorder of the Faculties at Berkeley, or the Director of the Lick Observatory, at Mount Hamilton, Santa Clara County, California.

**BIOCHEMISTRY AND PHARMACOLOGY**

T. BRAILSFORD ROBERTSON, Ph.D., Sc.D., Professor of Biochemistry.  
HARDOLPH WASTENEYS, Ph.D., Associate Professor of Pharmacology.  
\*CHARLES B. BENNETT, Ph.D., Instructor in Biochemistry.  
EDWARD S. SUNDSTROEM, M.D., Instructor in Biochemistry.  
JOHN A. MARSHALL, M.S., D.D.S., Assistant in Pharmacology.  
LOUIS A. RAY, Senior Technician in Biochemistry.

For science and general students the prerequisites for the study of biochemistry are as follows: matriculation physics and chemistry, Chemistry 1A-1B, 8A-8B and 9. No zoology, botany, histology, anatomy or physiology is required, but a student who has a sufficient knowledge of any of these subjects may be permitted to enter the course without having completely satisfied the preliminary requirements in chemistry outlined above. For science and general students the following series of courses is offered: 101, 102, 110, 111, 210, 211. These courses may be taken in any order or separately, provided the student has, in the opinion of the instructor, sufficient knowledge of related subject matter to enable him to carry on the work intelligently. Students taking courses 102 or 211 will be required to produce evidence of some preliminary training in physiology in addition to the requirements in chemistry outlined above.

For the medical student the prerequisites are as prescribed for the Medical School. Courses 101 and 102 are required.

The attention of intending graduate students in biochemistry is called to the fact that modern developments in this field of investigation call increasingly for a knowledge of the fundamental principles of physical chemistry, differential and integral calculus and statistical methods.

The equipment of the department affords ample opportunities for research. Facilities are offered to any properly qualified student who desires to undertake a well-planned investigation in any field of biochemistry.

The joint library of the department of biochemistry and physiology contains complete sets of all the important biochemical, pharmacological and physiological journals and the more important monographs on biochemical and related subjects.

**UPPER DIVISION COURSES****101M. Biochemistry.**

Professor ROBERTSON, Dr. BENNETT, and Dr. SUNDSTROEM.

Chemistry of the constituents of living matter; chemical dynamics of life phenomena; chemical physiology of the blood, digestion, metabolism, reproduction, growth, and excretion.

17 hrs., second half-year; 9 units. Lectures, M Tu W Th, 1; F, 10; laboratory, M Tu W Th, 2-5. Open only to students matriculated in the Medical School.

---

\* In residence second half-year only, 1917-18.

101A. The same as course 101M except that laboratory work may be adjusted to meet special needs of academic students; open to academic students; will not be credited as part of the medical curriculum.

102M. Pharmacology.

Associate Professor WASTENEYS and Dr. MARSHALL.

The physiological action of drugs with illustrations derived from their therapeutic application; experiments and demonstrations.

The lectures will be delivered at the University of California Hospital in San Francisco; the laboratory work will be given in the Rudolph Spreckels Physiological Laboratory in Berkeley.

6 hrs., second half-year; 3 units. Lectures, M W, 3; laboratory, F, 1-5. Open only to students matriculated in the Medical School.

102A. The same as course 102M except that an equivalent amount of special reading, preparation of bibliographies, reports on special subjects, etc., may be substituted for the lectures in cases approved by the professor. Open to academic students with the necessary preparation; will not be credited as part of the medical curriculum.

110. Advanced Chemical Biology.

Professor ROBERTSON.

Special topics may be selected by the student in conference with the instructor as subjects of advanced and intensive study. Credit, not exceeding 4 units each half-year, to be arranged.

111. Problems in Metabolism.

Dr. SUNDSTROM.

8 hrs., first half-year; 4 units. Lectures, M W, 1; laboratory, M W, 2-5.

#### GRADUATE COURSES

210. Research in Biochemistry.

Professor ROBERTSON.

Either half-year, hours to be arranged.

211. Research in Pharmacology.

Associate Professor WASTENEYS.

Either half-year, hours to be arranged.



**BOTANY**

WILLIAM A. SETCHELL, Ph.D., Professor of Botany.

WILLIS L. JEPSON, Ph.D., Associate Professor of Dendrology.

HARVEY M. HALL, Ph.D., Associate Professor of Economic Botany and Assistant Botanist in the Agricultural Experiment Station.

\*NATHANIEL L. GARDNER, Ph.D., Assistant Professor of Botany.

THOMAS H. GOODSPEED, Ph.D., Assistant Professor of Botany.

TOWNSHEND S. BRANDEGEE, Ph.B., Honorary Curator in the Herbarium.

C. A. PURPUS, Pharm.D., Botanical Collector.

EUGENE S. HEATH, M.A., Assistant in Botany, for the first half-year.

Courses 2 and 3 lead directly to and are prerequisite for advanced work in botany. Lecture courses in the summer session may be equivalent to course 1A-1B in part, and credit will not be given for both in such a case. Courses 2 and 3 are also designed to fulfill lower division requirements in the College of Agriculture. Laboratory courses in the summer session may be equivalent to courses 2 and 3; credit will not be given for duplicated work.

Courses 104A-104B, 105A, 109A-109B, and 116 are required for major subjects in different divisions of the department of agriculture.

*Honor-students in the Upper Division.*—Of the 24 units of upper division work required for graduation with honors, 18 units should consist of courses 104, 105, 109, the remaining 6 units to be made up preferably from one of the more advanced courses in the department. In special cases, by permission of the head of the department, these 6 units may be taken in some allied department.

Honor-students will be given special opportunities as far as facilities will permit. These may consist of additional working room in the laboratories, of opportunities for herbarium, garden, or field work, or of additional individual attention and guidance from the instructor. If it seems advisable, an honor-student may, after consultation with the instructor, substitute special field, laboratory, or garden studies for a part of the class work regularly required of other students.

For those students who expect to prepare for botanical research or teaching, a broad foundation in related subjects is strongly advised. The fundamental courses in physics and chemistry should be taken, if possible, before the work in botany is begun. Courses in physiology, zoology, and plant pathology may be included to advantage; higher mathematics is desirable; a reading knowledge of French and German is necessary; some knowledge of Latin is very desirable for advanced systematic botany.

A laboratory fee of \$2.50 will be charged each half-year for each laboratory course. This rule applies to courses 2, 3, 104A-104B, 105A-105B, 106A-106B, 107A-107B, 109A-109B, 110, 111A-111B, 112A-112B, 113A-113B, 116.

---<sup>2</sup> In residence second half-year only, 1917-18.

## LOWER DIVISION COURSES

## 1A-1B. Fundamentals of Botany.

Professor SETCHELL.

Lectures, illustrated as far as possible by means of specimens, diagrams, and preparations; designed to set forth in a general way the most important facts, problems, and theories with which botanical science is concerned.

3 hrs., throughout the year. M W F, 8. Either 1A or 1B may be taken separately without prerequisite.

## 2. General Botany.

Mr. HEATH and Assistants.

An elementary laboratory study of the plant, including its general structure and the correlation and individual functions of the various plant organs.

6 hrs., first half-year; 3 units. Lectures, M W, 8. Laboratory, five sections: I, M W, 1-3; II, Tu Th, 8-10; III, Tu Th, 10-12; IV, Tu Th, 1-3; V, Tu Th, 3-5. Prescribed for students in the College of Agriculture and prerequisite to all upper division courses in botany.

## 3. General Botany (continued).

Assistant Professor GARDNER and Assistants.

A continuation of course 2 with special emphasis upon the general characteristics, comparative morphology, and economic importance of representative orders of both spore-bearing and seed-bearing plants.

6 hrs., second half-year; 3 units. Lectures, M W, 8. Laboratory, five sections as in course 2. Prerequisite: course 2. Prescribed for students in the College of Agriculture and prerequisite to all upper division courses in botany.

## UPPER DIVISION COURSES

## 104A-104B. General Phaenogamic Botany.

Associate Professor JEPSON.

104A. Forest Botany. Laboratory work on the botanical characters of forest trees and chaparral; practice in the determination of important California species; lectures on the classification of Gymnosperms and other groups, and on the essentials of morphology and physiology as applied to trees.

6 hrs., first half-year; 3 units. Tu Th, 1-4. Field work on alternate Saturdays. Prerequisite: courses 2 and 3.

104B. Angiosperms. Representative orders of flowering plants, dealing especially with their habits and growth, structure, classification, and geographical distribution. Laboratory work and lectures.

6 hrs., second half-year; 3 units. Tu Th, 1-4, with 3 hrs. field work to be arranged. Prerequisite: course 104A.

105A-105B. General Cryptogamic Botany.

Professor SETCHELL and Mr. —.

The orders of spore-bearing plants from the points of view of structure, development, and economic importance. Laboratory work and informal lectures.

6 hrs., laboratory, 1 hr. lecture, throughout the year; 3 units each half-year. M F, 1-4. Prerequisite: courses 2 and 3. May be taken either half-year by properly qualified students.

106A-106B. Phycology and Mycology.

Professor SETCHELL.

Laboratory work upon the structure, development, and classification of the algae, fungi, and lichens, with informal lectures and the assignment of outside reading. Intended for students who desire some critical knowledge of the lower cryptogamous orders

6 hrs., throughout the year; 3 units each half-year. M W F, 10-12. Prerequisite: course 105A-105B.

107A-107B. Pteridology and Bryology.

Professor SETCHELL.

The structure, development, and classification of the higher cryptogams (hepatics, mosses, ferns, and fern allies) will be treated in the same way as the lower cryptogams in course 106A-106B.

6 hrs., throughout the year; 3 units each half-year. M W F, 10-12. Prerequisite: course 105A-105B.

109A-109B. Physiological Plant Histology.

Assistant Professor GOODSPEED.

A physiological study of the activities of the principal tissue systems of the plant body based upon an examination of their structure.

6 hrs., throughout the year; 3 units each half-year. Tu Th, 9-12. Prerequisite: courses 2 and 3.

110. Botanical Microtechnique.

Assistant Professor GOODSPEED.

Laboratory practice in the methods of preparing plant material for microscopical examination. Preservation of tissues, fixation, staining, the paraffin method, the celloidin method and the freezing method. Assigned readings and written reports.

6 hrs., second half-year; 2 units. M W, 9-12. Prerequisite: courses 2 and 3.

111A-111B. Vegetable Cytology.

Assistant Professor GOODSPEED.

The anatomy and physiology of the cell, including the cell division, chromosome reduction, fertilization, and a consideration of heredity and development from the standpoint of cytology. Laboratory work and lectures.

6 hrs., throughout the year; 3 units each half-year. M W, 9-12. Prerequisite: courses 2 and 3, 109A-109B and 110.

**112A-112B. Special Taxonomic Studies. Associate Professor JEPSON.**

Studies in special morphology of the compositae, leguminosae, pinaceae, or some similar group, mainly from the taxonomic standpoint, followed by the critical examination of various west American genera. At least part of the summer in the year previous to the election of this course should be spent in field work, preferably in California.

6 hrs., throughout the year; 3 units each half-year. Tu Th, 9-12; field work, alt. S, 8-5. Prerequisite: course 104A-104B.

**113A-113B. Taxonomy and Phylogeny of the Phaenogams. Associate Professor JEPSON.**

Characters and affinities of the classes and more important orders of seed plants, accompanied by informal discussions of phylogenetic problems.

6 hrs., throughout the year; 3 units each half-year. M W, 9-12; field work to be arranged. Prerequisite: courses 104A-104B and 105A-105B.

**116. Economic Botany. Associate Professor HALL and Assistants.**

Laboratory work on the morphology, classification, geographical distribution, and properties of plants which furnish commercial products and agricultural crops; lectures on the origin, collection, uses, and commerce of plant products.

6 hrs., first half-year; 3 units. Lectures, M W, 8; laboratory, M W, 10-12. Prerequisite: courses 2 and 3; Chemistry 1A-1B.

**GRADUATE COURSES.**

The equipment of the botanical department is fairly complete, permitting a wide range of studies. It includes the following collections:

(1) A phaenogamic herbarium of 170,000 sheets of mounted specimens and a large quantity of unmounted material which is available for use by responsible investigators. The flora of Western America is here better represented than in any other collection, which permits of satisfactory work in preparing revisions or monographs of these plants. The economic section contains representatives of the more common cultivated plants, particularly of those grown in California.

(2) A cryptogamic herbarium consisting of 25,000 mounted sheets. The representation of the west coast algae is undoubtedly the most complete in existence. These collections, together with the ease with which the marine forms may be collected, render the study of cryptogams, and particularly of algae, very satisfactory.

(3) A botanical museum containing valuable sections of woods, barks, cones, etc., available for class and research work.

(4) A botanical garden where native plants are grown and where cultural experiments may be carried on by qualified students.

- 225A-225B. Advanced Cryptogamic Botany.** Professor SETCHELL.  
Advanced and research work on the cryptogamic plants of California, particularly on the algae.  
Throughout the year. M W, 10-12. Credit to be arranged.
- 226A-226B. Advanced Phaenogamic Botany.** Associate Professor JEPSON.  
Special problems requiring the original investigation of some particular order or smaller group of flowering plants; involves work in the field as well as in the laboratory.  
Throughout the year. M W, 9-12. Credit to be arranged.
- 227A-227B. Advanced Plant Physiology.** Assistant Professor GOODSPEED.  
Special problems in plant physiology will be assigned to properly prepared students.  
Throughout the year. M W, 9-12. Credit to be arranged.
- 228A-228B. Advanced Economic Botany.** Associate Professor HALL.  
Special problems involving the investigation of some group of plants yielding commercial or agricultural products.  
9 hrs., throughout the year; 3 units each half-year. M W F, 1-4.
- 229A-229B. Advanced Plant Ecology.** Associate Professor HALL.  
Students properly prepared in plant physiology and taxonomy may undertake special problems in plant ecology.  
Throughout the year; hours to be arranged.
- 230A-320B. Botanical Seminar.** Professor SETCHELL and Staff.  
Graduates and advanced undergraduates meet once a week for the discussion of special topics. The head of the department should be consulted.  
1 hr., throughout the year. M, 7 p.m.

**CELTIC**

WILLIAM W. LYMAN, JR., M.A., Instructor in Celtic and English.

**LOWER DIVISION COURSE**

1A-1B. Elementary Modern Irish.

Mr. LYMAN.

Essentials of grammar; short stories and poems by contemporary writers.

3 hrs., throughout the year. M W F, 1.

**UPPER DIVISION COURSES**

101. Modern Irish: Advanced Course.

Mr. LYMAN.

Prose romances of the eighteenth and nineteenth centuries.

2 hrs., first half-year, to be arranged.

102A-102B. Modern and Early Welsh.

Mr. LYMAN.

This course is designed to give a student a reading knowledge of the language.

2 hrs., throughout the year, to be arranged.

Either course 1A-1B, or 102A-102B will be given, depending upon the needs and wishes of the students.

106. Old and Middle Irish.

Mr. LYMAN.

The old forms of the Irish tongue together with the reading of several of their chief literary monuments.

2 hrs., second half-year, to be arranged. Open to qualified students without a previous knowledge of Celtic.

150A-150B. The Development of Irish Philology and Literature.

Mr. LYMAN.

Special problems.

Throughout the year; hours to be arranged.

201. Seminar.

Mr. LYMAN.

Intensive study of Old Irish documents with discussions of the relation of the language to comparative philology.

3 hrs., either half-year, to be arranged.

## CHEMISTRY

GILBERT N. LEWIS, Ph.D., Professor of Physical Chemistry and Dean of the College of Chemistry.

EDMOND O'NEILL, Ph.B., Professor of Inorganic Chemistry and Director of the Chemical Laboratory.

WALTER C. BLASDALE, Ph.D., Associate Professor of Chemistry.

WILLIAM C. BRAY, Ph.D., Associate Professor of Chemistry.

\*HENRY C. BIDDLE, Ph.D., Assistant Professor of Chemistry.

EDWARD BOOTH, Ph.B., Assistant Professor of Chemistry.

JOEL H. HILDEBRAND, Ph.D., Associate Professor of Chemistry.

MERLE RANDALL, Ph.D., Assistant Professor of Chemistry.

CHARLES W. PORTER, Ph.D., Lecturer in Organic Chemistry.

GEORGE E. GIBSON, Ph.D., Instructor in Chemistry.

WILLIAM L. ARGO, Ph.D., Instructor in Chemistry.

GERALD E. K. BRANCH, Ph.D., Instructor in Chemistry.

ERMON D. EASTMAN, Ph.D., Instructor in Chemistry.

WORTH H. RODEBUSH, Ph.D., Instructor in Chemistry.

Two Teaching Fellows.

Fourteen Assistants.

Matriculation chemistry, subject 12b, is usually prerequisite to all courses in chemistry, excepting courses 1c and 1d. To students who have not taken chemistry in the high schools an opportunity of taking an equivalent course is offered during the summer session of the University.

Courses 1c and 1d are not open to students who have credit for matriculation chemistry, nor to those who have taken or are taking course 1a-1b.

Course 1a-1b is prerequisite to all further courses in chemistry. Students who plan to take advanced work in chemistry should have begun courses 6A-6B, 8A-8B, 9 and 110 before proceeding to further work in chemistry. A thorough training in mathematics and physics should not be neglected.

All undergraduate students from other institutions, who desire to take courses in chemistry more advanced than course 1a-1b, must present themselves to Professor Blasdale on or before the date of their registration for an informal examination or test of their fitness to undertake such work. In cases of doubt, such students will be required to enter a probation course of not more than two weeks' duration.

All students, whether in the College of Chemistry or in the College of Letters and Science, who propose to enter any branch of pure or applied chemistry as a profession are recommended to submit their proposed

\* Absent on leave, 1917-18.

schedules to Professor O'Neill, 221 Chemistry Building. Whether the student intends to prepare himself for research in governmental, industrial, or educational institutions, for teaching, for analytical chemistry, manufacturing chemistry, the chemistry of petroleum or any of the other branches of chemical engineering, it is desirable that a complete schedule of courses, chosen with a definite purpose and free from conflicts, be arranged at the earliest possible date. A general schedule for students in chemical engineering will be found in the announcement of the College of Chemistry in the Circular of Information.

A fee of \$5 will be charged for each unit of laboratory work in undergraduate courses; for example, \$10 for 1A-1B, 5, 6A-6B, and 9. The fee for course 180H is an exception to this rule and is \$10 irrespective of the number of hours taken. In addition to the fee, a deposit of \$5 must be made for each undergraduate course and this deposit, less the cost of apparatus destroyed, will be returned at the end of the half-year.

The chemical laboratories are well equipped for research work, and are open to properly qualified graduate students, not only during the college year, but also throughout the summer vacation.

*Honor-students in the Upper Division.*—Students in the College of Chemistry, and those in the College of Letters and Science who have a major in chemistry, are urged, when eligible, to enroll at the beginning of their junior year as candidates for honors. Honor-students will be given a larger share of personal instruction and a greater opportunity to choose courses, and work within courses, in a manner best suited to individual needs and aims. Students not in the honor-group will not, except under unusual circumstances and with the express permission of the instructor, be permitted to enroll for honor-courses (marked H) nor for undergraduate research. Students in the College of Letters and Science enrolled in the honor-group will not be recommended for honors in chemistry at graduation unless their work includes courses 6A-6B, 8A-8B, 9, 110, 114H and 180H. Students enrolled in the honor-group should confer with Professor Bray, Chairman of the Committee on Honors in Chemistry, regarding their whole plan for the last two years of college work.

## LOWER DIVISION COURSES

### 1c. Elements of Chemistry.

Professor O'NEILL.

Lectures on the general principles of chemistry, with experimental illustration.

2 hrs., first half-year. Tu Th, 10.

### 1d. Elements of Chemistry.

Professor O'NEILL.

The principles of chemistry with special consideration of applications to the manufacturing industries. Lectures, fully illustrated by experiments.

2 hrs., second half-year. Tu Th, 8.



**1A-1B. General Inorganic Chemistry and Qualitative Analysis.**

3 hrs., lectures and quiz, and 4 hrs. laboratory work, throughout the year; 5 units each half-year.

Lectures and quiz.

Associate Professor HILDEBRAND; Associate Professor BRAY, Assistant Professor BOOTH, Drs. GIBSON, ARGO, BRANCH, EASTMAN, and RODEBUSH.

Two sections: M W F, 9; M W F, 10.

**Laboratory.**

Assistant Professor BOOTH; Associate Professors BRAY and HILDEBRAND, Drs. GIBSON, ARGO, BRANCH, EASTMAN, and RODEBUSH.

Four sections: I, M F, 1-3; II, Tu Th, 9-11; III, Tu Th, 1-3; IV, W, 1-3; S, 9-11. Prerequisite: matriculation chemistry, subject 12b. In special cases students who have credit for matriculation physics may be allowed to take this course without the chemistry prerequisite, but in no case without the written consent of the instructor.

**5. Quantitative Analysis—Gravimetric and Volumetric.**

Associate Professor BLASDALE.

Short course in the principles and methods of quantitative analysis, designed for students who do not intend to take further work in chemistry.

7 hrs., either half-year; 3 units. Lecture, W, 1; laboratory, M F, 1-4.

**6A-6B. Quantitative Analysis—Gravimetric and Volumetric.**

Associate Professor BLASDALE and Dr. GIBSON.

Full course in the principles and methods of quantitative analysis.

7 hrs., throughout the year; 3 units each half-year. Two sections: Lecture, M, 10; laboratory, Tu Th, 1-4.

**8A-8B. Elements of Organic Chemistry.**

Dr. PORTER.

An introductory study of the compounds of carbon. Recitations and lectures with experimental illustrations. Laboratory course 9 should, if possible, accompany this course.

2 hrs., throughout the year. Tu Th, 8. Fortnightly quiz, hour to be arranged, probably M or Tu, 4.

**9. Elements of Organic Chemistry: Laboratory.**

Dr. PORTER.

A comparative experimental study of the physical properties and chemical reactions of the more commonly occurring classes of organic substances. Supplementary to course 8A-8B and open to all students enrolled in that course.

6 hrs., either half-year; 2 units. M W or W F or M F, 1-4.

## UPPER DIVISION COURSES

100. Organic Chemistry: Laboratory. Dr. PORTER and Dr. BRANCH.  
Continuation of course 9. The preparation of organic compounds and the study of their properties, including methods of analysis.  
6 hrs., second half-year; 2 units. M F, 1-4. Prerequisite: courses 8A-8B and 9.
101. Organic Chemistry: Laboratory. Dr. BRANCH.  
Continuation of course 100.  
6 hrs., first half-year; 2 units. M F, 1-4.
- 102A-102B. Advanced Organic Chemistry. Dr. BRANCH.  
Lectures and discussions.  
3 hrs., throughout the year. M W F, 9. Prerequisite: courses 8A-8B and 9.
110. Elementary Physical Chemistry. Associate Professor HILDEBRAND.  
Required for all later work in physical chemistry and designed also to meet the needs of students in allied sciences.  
3 hrs., second half-year. Tu Th, 11; W, 4. Prerequisite: course 5 or 6A; Physics 1A-1B or 2A-2B.
- 111, 111H. Physical Chemistry: Laboratory. Dr. RODEBUSH.  
Physico-chemical problems and measurements. Prerequisite: course 110.  
111.—10 hrs., first half-year; 4 units. Tu W Th, 1-4, and an additional hour.  
111H.—9 hrs., first half-year; 3 units. Tu W Th, 1-4.
- 114H. Thermodynamics. Dr. GIBSON.  
The principles of thermodynamics, with examples of their application to chemistry.  
3 hrs., first half-year. M W F, 10. Prerequisite: courses 6A-6B, 110; Physics 1A-1B, 2C-2D or 2A-2B, 3A-3B; mathematics, familiarity with differential and integral calculus.
- 116H. Advanced Physical Chemistry and Electro-Chemistry. Dr. ARGO.  
3 hrs., second half-year. M W F, 10. Prerequisite: courses 111H and 114H.
- 120, 120H. Advanced Inorganic Chemistry. Associate Professor BEAY.  
Preparation and experimental study of substances, designed primarily to illustrate the factors which influence equilibrium and the speed of chemical reactions. Correlation of material by means of the periodic system.  
7 hrs., second half-year; 3 units. Lecture, Tu or Th, 10; laboratory, Tu, 1-4, and one other three-hour period to be arranged. Prerequisite: course 6A-6B (5 only by special permission).

- 121, 121H. Advanced Inorganic Chemistry. Associate Professor BRAY.  
Continuation of course 120, including advanced qualitative analysis with some study of the rare elements.  
7 hrs., first half-year; 3 units. Lecture, Tu or Th, 10; laboratory, Tu, 1-4, and one other three-hour period to be arranged. Prerequisite: course 120 or 120H.
122. Applications of the Phase Rule. Associate Professor BLASDALE.  
The use of the Phase Rule in the treatment of a variety of chemical problems, especially those of practical interest.  
2 hrs., first half-year. Tu Th, 11. Prerequisite: course 110.
124. Advanced Quantitative Analysis. Associate Professor BLASDALE.  
The theory and use of special methods of quantitative analysis, including physico-chemical methods and electro-analysis.  
6 hrs., first half-year; 2 units. Conference hour, W, 2; five laboratory hours, to be arranged.
126. Gas and Fuel Analysis. Assistant Professor BOOTH.  
The principles and methods of accurate gas analysis.  
4 hrs., first half-year; 2 units. Lecture, M, 1; laboratory, F, 1-4. Prerequisite: course 6A-6B.
- 140A. Chemical Technology. Professor O'NEILL.  
General consideration of the processes employed in chemical manufacturing; installation of large scale apparatus, management, and costs.  
2 hrs., first half-year. Tu Th, 8. Prerequisite: courses 6A-6B, 8A-8B, 9, 110, 111.
- 140B. Chemical Technology. Professor O'NEILL.  
Continuation of course 140A, with special reference to the chemical technology of the Pacific Coast.  
2 hrs., second half-year. Tu Th, 10. Prerequisite: courses 6A-6B, 8A-8B, 9, 110, 111.
141. Chemical Technology: Laboratory. Professor O'NEILL.  
Laboratory work supplementary to courses 140A and 140B. Large scale preparation of commercial chemicals, with special reference to the petroleum industry. Experimental study of technical processes. Methods of technical analysis.  
6 hrs., first half-year; 2 units. Tu F, 1-4. Prerequisite: same as for course 140A.
- \*143. Chemistry of the Silicate Industries. Assistant Professor BOOTH.  
The chemistry and methods of investigation of ceramic materials, glass, cement, etc.  
2 hrs., first half-year. Tu Th, 8. Prerequisite: course 122.

---

\*Not to be given, 1917-18.

145. Applied Electro-chemistry. Assistant Professor RANDALL.  
A lecture and laboratory course dealing with certain fundamental electro-chemical processes, and with the chemical, physical, and economic factors involved in electro-chemical technology.  
7 hrs., first half-year; 3 units. Lecture hr. to be arranged. Laboratory, M F, 1-4. Prerequisite: courses 110 and 111.
160. History of Chemistry. Professor O'NEILL.  
The development of modern chemistry.  
2 hrs., first half-year. Tu Th, 9. Prerequisite: courses 5, 8A-8B, 110.
179. Special Laboratory Work.  
Students may be given an opportunity to carry on laboratory work along lines in which they are especially interested, and for which they are especially qualified. Such work can be undertaken under the direction of any member of the instructing staff who is willing to supervise it.  
6 to 9 hrs., either half-year; 2 to 3 units. Hours to be arranged.
- 180H. Chemical Research.  
Students who have completed with high credit a satisfactory number of advanced courses may prosecute original research representing not less than 4 units of experimental work under the direction of one of the members of the instructing staff. The explicit consent of the instructor must be obtained.
- 190H. Pro-seminar in Chemistry. The Staff.  
See course 290.
- 199H. Special Reading Course. The Staff.  
Reading and conference for individual honor-students. Credit to be arranged.  
These pro-seminar courses will, in certain cases, be combined with the corresponding graduate seminars 290, etc. (See note under these courses.)

## GRADUATE COURSES

## 280. Graduate Research.

The laboratory is open at all times to graduate students who wish to prosecute original investigations. Such work will ordinarily be under the direction of some member of the instructing staff who will determine the credit value of the work.

## 290. Graduate Seminar in Chemistry.

The Staff.

As a rule two seminars are offered in each half-year. The subjects will vary from year to year and will be announced at the beginning of each half-year. In certain cases courses 190H and 290 will be combined.

*Research Conference.*—Members of the instructing staff and students engaged in graduate research meet once a week to discuss the various investigations in progress in the laboratory. M or W, 11. No credit.

*Chemical Colloquium.*—In addition to the seminar courses, an evening colloquium will be held bi-weekly each half-year for the presentation and discussion of recent advances in chemistry and allied sciences. No credit.

## COURSES IN OTHER DEPARTMENTS

Physiological Chemistry. [See under Biochemistry.]

Metallurgy and Assaying. [See under Mining and Metallurgy.]

Minerals and Blowpipe Analysis. [See under Geology and Mineralogy.]

Sanitary Chemistry and Water Analysis. [See under Civil Engineering.]

## COURSES IN THE DEPARTMENT OF AGRICULTURE

Chemistry of Soils and Fertilizers. [See under Soils and Fertilizers.]

Chemistry of Milk. [See under Dairy Industry.]

Chemistry of Wine. [See under Viticulture.]

Analysis of Agricultural Products. [See under Agricultural Chemistry.]

Food Analysis. [See under Nutrition.]

**CIVIL ENGINEERING**

CHARLES DERLETH, JR., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering.

CHARLES G. HYDE, B.S., Professor of Sanitary Engineering.

FRANCIS S. FOOTE, JR., E.M., Professor of Railroad Engineering.

ARTHUR C. ALVAREZ, B.S., Assistant Professor of Civil Engineering.

ADOLPHUS J. EDDY, B.S., Assistant Professor of Civil Engineering.

WILFRED F. LANGELEIR, M.S., Assistant Professor of Sanitary Engineering.

CLEMENT T. WISKOCIL, C.E., Instructor in Civil Engineering.

EDWIN D. HAYWARD, B.S., Instructor in Civil Engineering.

VALDEMAR ARNTZEN, Expert Mechanic in Civil Engineering Laboratory.

J. R. SHIELDS, B.S., Engineer in Testing Laboratory.

II. H. HARDER, Assistant in Testing Laboratory.

*Laboratory Fees.*—\$5 a half-year for courses 1A-1B, 1E, 102; \$7.50 for 123 to 128; \$10 for 108C, 108E, 108F; and \$20 each for 3 and 103.

*Honors.*—Students will be recommended for honors on the basis of the quality of the work done in the regular curriculum of the senior year. Particular emphasis will be placed upon the thesis.

**LOWER DIVISION COURSES****1A-1B. Plane Surveying.**

Professor FOOTE, Assistant Professors ALVAREZ, EDDY, and LANGELEIR, Mr. WISKOCIL, Mr. HAYWARD, and Assistants.

Methods of plane surveying; field practice; calculations, and mapping.

4 hrs., throughout the year; 3 units each half-year. Recitation sections: I, II, M F, 8; III, IV, M F, 9; V, VI, Tu Th, 8. Field and drafting sections: I, M, 1-3; II, Tu, 9-11; III, Tu, 1-3; IV, Th, 9-11; V, F, 1-3. Prescribed, freshman year, in the colleges of engineering. Prerequisite: plane trigonometry. Fee, \$5 each half-year.

**1E. Plane Surveying.**

Professor FOOTE, Assistant Professors ALVAREZ, EDDY and LANGELEIR, Mr. WISKOCIL, Mr. HAYWARD, and Assistants.

The more elementary parts of course 1A-1B briefly presented. Open only to students of agriculture and architecture.

4 hrs., either half-year; 3 units. Tu Th, 11; W or Th, 1-3. Fee, \$5. Prerequisite: plane trigonometry.

3. Summer Class in Plane Surveying.  
Professor FOOTE, Assistant Professors ALVAREZ, EDDY, and LANGELIER,  
Mr. WISKOCIL, Mr. HAYWARD, and Assistants.  
Four weeks; 3 units. Sec. I begins the day after Commencement; Sec.  
II, four weeks later. The summer school site is near Santa Cruz.  
Fee, \$20. Prerequisite: course 1A-1B.
8. The Materials of Engineering Construction.  
Assistant Professor ALVAREZ, Mr. WISKOCIL and Mr. HAYWARD.  
The structural properties and adaptability of various materials  
employed in engineering construction.  
2 hrs., second half-year. Sec. I, M F, 8; II, M F, 9; III, Tu Th, 8.  
Prerequisite: sophomore standing.
25. Plumbing, Heating, Ventilating, and Lighting.  
Assistant Professor LANGELIER.  
For students of public health and sanitary engineering.  
2 hrs., first half-year. Tu Th, 9. Prerequisite: Physics 1A-1B, Chem-  
istry 1A-1B, Hygiene 1, or equivalents.

#### UPPER DIVISION COURSES

102. Railroad Surveying. Professor FOOTE and Mr. HAYWARD.  
Simple, compound, and transition curves; reconnaissance, preliminary  
and location surveys; calculations of earthwork and other quan-  
tities; field work, such as running in curves, etc.  
5 hrs., first half-year; 3 units. Lectures, Tu Th, 10; field work, Th, 1-4.  
Prerequisite: course 3. Fee, \$5.
- 102c. Railroad Engineering Office Practice. Professor FOOTE.  
The plotting of railroad maps and profiles; calculation of volumes of  
masonry and earthwork; drafting of railroad structures.  
3 hrs., second half-year; 1 unit. Tu, 1-4. Prerequisite: course 102.
103. Summer Class in Railroad Surveying.  
Professor FOOTE, Assistant Professors ALVAREZ, EDDY, and  
LANGELIER, Mr. WISKOCIL and Mr. HAYWARD.  
Four weeks; 3 units. Begins the day after Commencement. Fee,  
\$20. Prerequisite: courses 3 and 102.
- 104A. Economics of Railroad Location. Professor FOOTE.  
Influence of railroad location upon profit-producing value, with par-  
ticular reference to the effect of distance, curvature, and grades  
upon operating expenses.  
3 hrs., first half-year. M W F, 10. Prerequisite: course 103.
- 104B. Railroad Construction and Maintenance. Professor FOOTE.  
Grading, tunneling, waterways, track laying; the materials and  
methods used in maintenance work; signaling and interlocking;  
yards and terminals.  
3 hrs., second half-year. M W F, 10. Prerequisite: course 103.

**105. Higher Surveying and Geodesy.****Professor FOOTB.**

Methods of geodetic surveying; adjustment of observations; geodetic positions; map projections.

2 hrs., second half-year. Tu Th, 11. Prerequisite: course 3; Astronomy 3 and 107.

**106. Highway Engineering.****Professor HYDE.**

The location, design, construction and maintenance of roads and streets; the construction and maintenance of pavements.

2 hrs., first half-year. Tu Th, 11. Prerequisite: course 8.

**107A. Framed Structures.****Assistant Professor EDDY.**

The computation of stresses in roofs, building frames, and simple bridge trusses, chiefly by analytical methods.

5 hrs., second half-year; 3 units. W F, 8; Th, 1-4. Open to students in civil engineering who have taken, or who are taking course 108A-108B, section I, Mechanics 102A-102B or Physics 105A-105B, and Drawing 105.

**107C-107D. Framed Structures.****Professor DERLETH.**

Continuation of course 107A. Stress computations for steel-framed structures; the design of plate girders, roof, and bridge trusses; bridge shop practice.

5 hrs., throughout the year; 3 units each half-year. Tu Th, 10; W, 1-4. Prerequisite: courses 107A and 108A-108B, Sec. I.

**107E-107F. Framed Structures.****Assistant Professor EDDY.**

For architectural students. Stress computations and design of structures in wood, steel, and reinforced concrete, particularly of buildings; foundations and retaining walls; structural specifications.

5 hrs., throughout the year; 3 units each half-year. Tu Th, 8; M, 1-4. Prerequisite: courses 117 and 118A-118B.

**108A-108B. Strength of Materials.****Professor DERLETH, Assistant Professors ALVAREZ and EDDY.**

The elastic and ultimate resistance of materials; stress analysis for bars, beams, columns and shafts; theory of resilience; deflections and combined stresses; elements of design for wood, steel, and reinforced concrete structures.

This course is given in three sections. Prerequisite: Mathematics 4A-4B. Physics 105A-105B or Mechanics 102A-102B must be taken concurrently.

Sec. I, Professor DERLETH; 3 hrs., first half-year, M W F, 9; and 2 hrs., second half-year; Tu Th, 9. For civil engineering students.

Sec. II, Assistant Professor ALVAREZ; 3 hrs., first half-year, M W F, 10; and 2 hrs., second half-year, M F, 10. For mechanical and electrical engineering students.



Sec. III, Assistant Professor EDDY; 3 hrs., first half-year, M W F, 10; and 2 hrs., second half-year, M F, 10. For mechanical and electrical engineering students.

NOTE.—Mining (petroleum engineering) and chemical engineering students may enroll in any section of course 108A. Mining and metallurgy students in the College of Mining are required to take course 118B.

**108C. Civil Engineering Laboratory.**

Assistant Professor ALVAREZ, Mr. WISKOCIL and Mr. SHIELDS.

Physical tests of timber, metals, brick, plain and reinforced concrete, macadam and asphaltic road materials.

6 hrs., first half-year; 2 units. Laboratory periods, Sec. I, M, 1-4; II, W, 1-4; III, F, 1-4. Computing periods to be arranged. Prerequisite: courses 8 and 108A-108B. Students in sanitary engineering and in irrigation may take part of the complete course, credit, 1 unit. Fee, \$10 for 2 units, \$5 for 1 unit.

**108E. Civil Engineering Laboratory.**

Assistant Professor ALVAREZ, Mr. WISKOCIL and Mr. SHIELDS.

Physical tests of cement, mortars, plain and reinforced concrete.

3 hrs., second half-year; 1 unit. Sec. I, M, 1-4; II, F, 1-4. Prerequisite: course 8 and satisfactory standing in 108A-108B. Fee, \$10.

**108F. Civil Engineering Laboratory.**

Assistant Professor ALVAREZ, Mr. WISKOCIL and Mr. SHIELDS.

Physical tests of cement, concrete, timber, metal, and brick.

3 hrs., second half-year; 1 unit. M, 1-4. Elective for students of architecture only. Fee, \$10.

**109A. Sewerage Engineering.**

Professor HYDE.

The design and construction of sewerage works.

2 hrs., first half-year. M W, 8. Prerequisite: course 110.

**109B. Sewage and Sewage Disposal.**

Professor HYDE.

The chemical and biological character of sewage; its treatment and disposal.

1 hr., first half-year. W, 9. Prerequisite: Chemistry 5 and 8A, Bacteriology 1.

**110. Hydraulics.**

Professor HYDE.

Theory of hydraulics; application of principles; water measuring devices; stream gauging.

5 hrs., first half-year; 3 units. Tu Th, 8; Tu, 1-4. Prerequisite: Mathematics 4A-4B. Physics 105A-105B or Mechanics 102A-102B must be taken concurrently.

**111A. Water Supply Engineering.**

Professor HYDE.

The design and construction of water works.

2 hrs., second half-year. Tu Th, 11. Prerequisite: course 110.

- 111b. Character and Sanitation of Water Supplies. Professor HYDE.  
Water from the aesthetic, commercial, and sanitary points of view; water purification.  
1 hr., second half-year. M, 10. Prerequisite: Chemistry 5 and 8A; Bacteriology 1; Zoology 109c.
- \*112. Dams of Timber, Masonry, and Earth. Professor HYDE.  
1 hr., first half-year. W, 11. Prerequisite: junior standing.
113. Foundations of Structures. Professor DERLETH.  
Ordinary foundations, footings, sheet piling, piles, coffer-dams, open caissons, the pneumatic process; deep well dredging.  
2 hrs., first half-year. Tu Th, 8. Prerequisite: course 108A-108B.
114. Masonry Structures. Professor DERLETH.  
Design of typical masonry structures, such as dams, retaining walls, bridge piers, abutments, culverts, aqueducts, chimneys, stone and concrete arches, and arch bridges.  
5 hrs., second half-year; 3 units. Tu Th, 8; W, 1-4. Prerequisite: course 108A-108B.
115. Fire-proofing. Assistant Professor ALVAREZ.  
The resistance of building materials to fire; fire resistive and slow-burning construction; fire extinguishing equipment; corrosion and preservation of structural metal.  
2 hrs., first half-year. M W, 11. Elective for students of civil engineering and architecture. Course 108A to be taken concurrently.
116. Engineering Contracts and Specifications. Professor HYDE.  
The preparation and legal aspect of contract stipulations, forms, and instruments for advertisements, proposals, contracts, and bonds; specifications for various kinds of work and materials.  
1 hr., second half-year. W, 11. Prerequisite: junior standing.
117. Framed Structures. Mr. WISKOCIL.  
The computation of stresses in roofs, building frames and other structures, chiefly by analytical methods.  
5 hrs., second half-year; 3 units. M W, 10; M, 1-4. Prescribed for architectural students who are taking course 118A-118B and Drawing 105.
- 118A-118B. Strength of Materials. Assistant Professor EDDY.  
The elastic and ultimate resistance of materials; stress analysis for bars, beams, and columns; theory of resilience; deflections and combined stresses. Application of statics and the theory of the elasticity and strength of structural materials to the elements of design for buildings.  
3 hrs., throughout the year; 3 units each half-year. M W F, 9. Prerequisite: Mathematics 4A-4B, Physics 1A-1B, Civil Engineering 8. Prescribed for students of architecture and for students of mining and metallurgy in the College of Mining.

---

\*Not to be given, 1917-18.

119. Thesis for B.S. Degree.

For the regulations governing thesis work see the annual Circular of Information, Academic Departments. Candidates for B.S. who elect a thesis in the department of Civil Engineering will register, during both half-years, of the last or senior year, for Civil Engineering 119. Candidates who elect their thesis in other departments will register according to announcements of those departments.

Students who contemplate theses in the civil engineering laboratories should notify the department before December of the junior year.

2 units each half-year.

123. Sanitary Engineering Laboratory.

Professor HYDE and Assistant Professor LANCELIER.

The chemical and biological examination of water and sewage, with particular reference to the analytical control of water purification and sewage treatment plants. Required of sanitary engineering students, but arrangements will be made for instruction of students in other departments.

9 hrs., first half-year; 3 units. M Tu W, 2-5. Prerequisite: Chemistry 5, or equivalent. Fee, \$7.50.

124. Elementary Water Supply, Sewerage, and Municipal Wastes Engineering.

Assistant Professor LANCELIER.

Water supply and sewerage works; purification of water; treatment of sewage and the disposal of refuse. Primarily designed for students of public health.

3 hrs., second half-year. M W F, 8. Prerequisite: junior standing.

125. Plumbing, Heating, Ventilating and Lighting.

Assistant Professor LANCELIER.

For students of home economics.

2 hrs., first half-year. M W, 11. Prerequisite: junior standing.

126. Applied Sanitary Science and Municipal and State Sanitation.

Professor HYDE.

The application of the principles of sanitary science to the work of municipal and state sanitation.

2 hrs., second half-year. Tu Th, 9. Prerequisite: Zoology 109c, Bacteriology 1, Chemistry 5 and 8A, and Civil Engineering 109B.

NOTE.—Special arrangements will be made for students in other courses and in other departments who may desire to take this course.

127. Sewage Disposal and Water Supply.

Assistant Professor LANCELIER.

Lectures and recitations, with outside reading on public and private water supply and sewage disposal installations. Arranged for students of architecture.

2 hrs., first half-year. Tu Th, 11. Prerequisite: junior standing.

**128. Sanitary Engineering Laboratory.**

Professor HYDE and Assistant Professor LANGEЛИER.

The chemical and biological examination of water and sewage. Laboratory exercises and lectures on the interpretation of analyses. For students of public health; may be elected by students in other departments.

9 hrs., second half-year; 3 units. M Tu W, 2-5. Prerequisite: Chemistry 1A-1B. Fee, \$7.50.

**GRADUATE COURSES****\*220A-220B. Framed Structures.**

Professor DERLETH.

The design of continuous girders, swing, cantilever, suspension and metallic arch bridges, and of reinforced concrete structures.

Throughout the year. Programme of work to be arranged each year. Prerequisite: course 107C-107D.

**\*221A-221B. Theory of Resilience and Deflections. Professor DERLETH.**

Applications to the statically indeterminate structures.

Throughout the year. Programme of work to be arranged in each case. Prerequisite: course 107C-107D.

**222A-222B. Sanitary Design.**

Professor HYDE.

The design of elements of systems for water supply, water purification, sewerage, sewage and refuse treatment and disposal, etc.

Throughout the year. Individual assignments. Prerequisite: courses 109A, 109B, 110, 111A, and 111B.

**223. Laboratory Experiments.**

Professor DERLETH, Assistant Professor ALVAREZ, Mr. WISKOCIL, and Mr. SHIELDS.

For advanced work in civil engineering the testing laboratory is equipped with apparatus specially designed to make tests and original studies upon the strength and elasticity of structural materials. Programme of work to be arranged in each case. Prerequisite: courses 8, 108A-108B, 108C, and 108E.

**224. Harbor Engineering.**

Assistant Professor ALVAREZ.

Harbor planning; design and construction of breakwaters and docks; river improvements.

1 or 2 hrs., first half-year, to be arranged.

**225. Advanced Sanitary Engineering Laboratory.**

Professor HYDE and Assistant Professor LANGEЛИER.

Special laboratory problems in water, sewage, air, and refuse analysis; tests of apparatus, experimental or practical, in available localities.

Programme of work to be arranged in each case. Prerequisite: course 123. Fee, \$2.50 per unit.

\*Not to be given, 1917-18.

## DRAWING AND ART

HERMANN KOWER, C.E., Associate Professor of Drawing.  
 C. CHAPEL JUDSON, Assistant Professor of Antique Drawing.  
 WILLSON J. WYTHE, B.S., Assistant Professor of Mechanical Drawing.  
 EUGEN NEUHAUS, Assistant Professor of Decorative Design.  
 OLIVER M. WASHBURN, A.B., Assistant Professor of Classical Archaeology.  
 PERHAM W. NAHL, Instructor in Freehand Drawing and Art Anatomy.  
 ROSS J. BROWER, B.S., Instructor in Drawing.

*Honor-students in the Upper Division.*—Prospective candidates for honors must have the permission of the department before undertaking upper division work, and permission will be granted only to those who have shown proficiency in the lower division work and who have passed such examinations in the elementary subjects as may be required by the department. Credit for advanced work done in other institutions will be given only upon a satisfactory test in correlated lower division subjects.

*Graphic Art.*—Courses A-B, 1, 6, 7, and Engineering Drawing CD and 9 are normally prerequisite to honor-work in the upper division. The requirement of 24 units in major courses must normally include courses 102, 114, 115, 116 or 117, 118, 127, 128. Students are advised to elect Philosophy 36A-36B and to take the teachers' course offered in the summer session during the last year in college. Candidates of marked ability who have taken 24 units of varied upper division work with excellent results will be recommended for honors. A command of scientific and artistic perspective, creative ability in design as well as in color, and a thorough knowledge of artistic anatomy will be regarded as essential.

*Engineering Drawing.*—Courses CD, 3A, 3B, 3C, 9, and Graphic Art A-B are normally prerequisite to honor-work in the upper division. The requirement of 24 units in major courses must normally include courses 125, 101A-101B, Mechanics 6A, Architecture 101A-101B. Students are advised to elect courses 105, 107A-107B, 110, Mechanics 106B, and Mathematics 113. Candidates will be recommended for honors on the basis of the quality of the work done in the regular curriculum.

## ENGINEERING DRAWING

### LOWER DIVISION COURSES.

CD. Instrumental Drawing. Assistant Professor WYTHE.

Use of instruments; solving of geometrical problems; construction of mathematical curves; lettering; technical drawings.

6 hrs., either half-year; 2 units each half-year. Two sections: I, M F, 1-4; II, Tu Th, 1-4.

## 3. Descriptive Geometry.

Associate Professor KOWER, Assistant Professor WYTHE, and Mr. BROWER.

Courses 3A, 3B and 3C are intended for students in architecture, candidates for teachers' recommendations and honor-students.

## 3A. Problems on points, lines and planes.

6 hrs., first half-year; 2 units. M F, 1-4. Prerequisite: course CD or matriculation subject 17.

## 3B. Problems on solids, warped and irregular surfaces.

6 hrs., second half-year; 2 units. M F, 1-4. Prerequisite: course 3A.

## \*3C. Problems on shades, shadows and perspective.

6 hrs., first half-year; 2 units. Prerequisite: course 3B or course 3D.

## 3D. An abridgment of courses 3A and 3B. Intended for engineering students.

9 hrs., either half-year; 3 units. Two sections: I, Tu Th S, 9-12; II, Tu W Th, 1-4. Prerequisite: same as for course 3A.

## 9. Lettering.

Assistant Professor WYTHE.

Freehand and instrumental; various alphabets; construction of titles.

3 hrs., either half-year; 1 unit. Two sections each half-year. First half-year: I, M, 1-4; II, Th, 1-4. Second half-year: I, Tu, 1-4; II, F, 1-4. Prerequisite: course CD or matriculation subject 17.

## UPPER DIVISION COURSES

## 101A-101B. Teachers' Training Course in Mechanical Drawing.

Assistant Professor WYTHE.

Various courses given in the secondary schools; methods of teaching; examination of text-books; visiting schools; drawing, with criticism.

1 hr., throughout the year; 1 unit each half-year. Th, 4. Prerequisite: senior or graduate standing.

## 105. Graphostatics.

Associate Professor KOWER, Assistant Professor WYTHE, and Mr. BROWER.

Graphic analysis of stresses in engineering structures.

2 hrs., second half-year; 2 units. Three sections: I, W, 2-4; II, Th, 2-4; III, F, 2-4. Prerequisite: Civil Engineering 108A and Physics 105A or Mechanics 102A.

## 107A-107B. Construction.

Associate Professor KOWER.

Continuation of course 105, including the designing of engineering structures, such as roof-trusses, bridges, etc.

6 hrs., throughout the year; 2 units each half-year. M F, 1-4.

\* Not to be given, 1917-18.

110. Stereotomy. Associate Professor KOWER.  
Continuation of course 3d, intended for students of architecture.  
6 hrs., first half-year; 2 units. M F, 1-4.
125. Perspective. Assistant Professor WYTHE.  
Continuation of course 3c, intended for those preparing to teach and  
for students of architecture.  
3 hrs., second half-year; 2 units. M, 1-4.

### GRADUATE COURSE

- 224A-224B. Seminar in Mechanical Drawing.  
Associate Professor KOWER, Assistant Professor WYTHE,  
and Mr. BROWER.  
Advanced work in mechanical drawing for graduate students.  
Hours to be arranged.

---

### GRAPHIC ART

#### LOWER DIVISION COURSES

- A-B. Elementary Freehand Drawing. Mr. NAHL.  
Drawing in pencil from models, embracing the study of light and  
shade and perspective; drawing from memory; with lectures.  
3 hrs., throughout the year, beginning either in August or January;  
1 unit each half-year. Three sections: I, M, 1-4; II, W, 1-4; III,  
F, 1-4. This course is equivalent to matriculation subject 16.
- 1A-1B (or 1C). General History of Art.  
Assistant Professors WASHBURN and NEUHAUS.  
Lectures on the development of art in the western world from the  
palaeolithic age to the present century.
- 1A. The first half-year's work extends through the art of Egypt,  
Mesopotamia, Greece, and Rome to the early Christian and  
Byzantine periods.
- \*1B. The second half-year's work deals with the art of the Renais-  
sance and modern periods in Europe, alternating with
- 1C. which deals with the development of the fine arts, particularly  
painting, in our own country.
- Sections will be provided for class study and a final examination  
given at the end of each half-year. Students will profit by a  
knowledge of general history.
- 3 hrs., first half-year. M W F, 3. 2 hrs., second half-year. M F, 3.

---

\* Not to be given 1917-18; will be given 1918-19 and alternate years.

## 6. Elementary Design.

Assistant Professor NEUHAUS.

The principles that govern design. Geometrical forms as the basis of all design; the various laws of rhythm, balance, harmony, etc. Lectures, discussions and blackboard illustration; class problems in pencil and ink.

4 hrs., first half-year; 2 units. M F, 9-11. Prerequisite: course A-B, and Drawing CD.

## 7. Color Theory.

Assistant Professor NEUHAUS.

A theoretical study of color problems with practical application in water color, tempera and crayons.

3 hrs., first half-year; 1 unit. W, 1-4. Prerequisite: course A-B and Drawing CD.

## 14A-14B. Advanced Freehand Drawing.

Assistant Professor JUDSON.

6 hrs., throughout the year; 2 units each half-year. Two sections: I, Tu Th, 9-12; II, Tu Th, 1-4. Prerequisite: course A-B or matriculation subject 16.

## UPPER DIVISION COURSES

## 102. Teachers' Training Course in Freehand Drawing.

Mr. NAHL.

A presentation of freehand drawing for students preparing to teach. Relation of drawing to other subjects, methods of teaching and selection of materials.

1 hr., second half-year; 1 unit. M, 4. Prerequisite: senior or graduate standing.

## 114A-114B. Advanced Work in Freehand Drawing.

Assistant Professor JUDSON.

Continuation of course 14A-14B.

6 hrs., throughout the year; 2 units each half-year. I, Tu Th, 9-12; II, Tu Th, 1-4. Prerequisite: course 14A-14B.

## 115A-115B. Drawing from Model; Composition.

Assistant Professor JUDSON.

3 hrs., throughout the year; 1 unit each half-year. W, 9-12. Prerequisite: course 114A-114B.

## 116A-116B. Still-life Painting.

Assistant Professor JUDSON.

3 hrs., throughout the year; 1 unit each half-year. M, 9-12. Prerequisite: course 114A-114B.



117A-117B, 117C-117D. Advanced Color Study.

Assistant Professor NEUHAUS.

Practical problems in all mediums except oils, applied to decorative purposes.

3 hrs., throughout two years; 1 unit each half-year. F, 1-4. Prerequisite: courses 6 and 7. Students should register for 117A-117B in the first year; 117C-117D in the second year.

118A-118B, 118C-118D. Advanced Design. Assistant Professor NEUHAUS.

Natural objects and their translation into conventional forms. Practical application of design in pencil and water color. Stenciling, wood-block printing.

3 hrs., throughout two years; 1 unit each half-year. M, 1-4. Prerequisite: courses 6 and 7. Students should register for 118A-118B in the first year; 118C-118D in the second year.

127A-127B. Art Anatomy.

Mr. NAHL.

The proportions and the general appearance of the human form.

1 hr., throughout the year; 1 unit each half-year. F, 4. Prerequisite: course 114A.

128A-128B. Art Anatomy Practice.

Mr. NAHL.

Drawing in charcoal from bones, anatomical casts and life models, in light and shadow, direct and foreshortened.

3 hrs., throughout the year; 1 unit each half-year. Th, 9-12. Prerequisite: course 127A-127B.

168. Community Art.

Assistant Professor NEUHAUS.

Discussion of the aesthetic problems of community life. The promotion of artistic appreciation through the fine and applied arts. Intended to be especially helpful to prospective teachers and also to others, who are interested in the many practical and aesthetic problems in and outside of the school and home.

1 hr., first half-year. Tu, 8 p.m. Prerequisite: senior or graduate standing.

199. Pro-seminar in Graphic Art.

Assistant Professors JUDSON and NEUHAUS and Mr. NAHL.

According to the interests and requirements of the students in the course.

3-6 hrs., either half-year; 1-2 units. Hours to be arranged.

## GRADUATE COURSES

216A-216B. Advanced Still-life Painting. Assistant Professor JUDSON.  
Continuation of course 116A-116B.

3 hrs., throughout the year; 1 unit each half-year. Tu, 1-4. Pre-  
requisite: course 116A-116B.

217A-217B. Continuation of course 117A-117B.

Assistant Professor NEUHAUS.

Hours to be arranged.

218A-218B. Continuation of course 118A-118B.

Assistant Professor NEUHAUS.

Hours to be arranged.

228A-228B. Continuation of course 128A-128B.

Mr. NAHL.

3 hrs., throughout the year; 1 unit each half-year. Th, 9-12.

269. Seminar in Graphic Art.

Assistant Professors JUDSON and NEUHAUS and Mr. NAHL.

According to the interests and requirements of the students in the  
course.

3-6 hrs., either half-year; 1-2 units. Hours to be arranged. Pre-  
requisite: graduate standing.

## ECONOMICS

CARL C. PLEHN, Ph.D., LL.D., Professor of Finance on the Flood Foundation.

HENRY R. HATFIELD, Ph.D., Professor of Accounting on the Flood Foundation; Dean of the College of Commerce.

STUART DAGGETT, Ph.D., Professor of Railway Economics, on the Flood Foundation.

LINCOLN HUTCHINSON, M.A., Professor of Commerce on the Flood Foundation.

JESSICA B. PEIXOTTO, Ph.D., Associate Professor of Social Economics.

LUCY W. STEBBINS, A.B., Associate Professor of Social Economy.

IRA B. CROSS, Ph.D., Associate Professor of Economics on the Flood Foundation.

<sup>1</sup>CHARLES E. BROOKS, Ph.D., Assistant Professor of Insurance.

WARNER BROWN, Ph.D., Assistant Professor of Psychology.

JOHN F. FORBES, Certified Public Accountant, Lecturer in Accounting.

<sup>1</sup>PAUL A. SINSHEIMER, B.L., Special Lecturer in Economics.

HERBERT S. SHUEY, B.S., Special Lecturer in Commerce.

FREDERICK R. MACAULAY, LL.B., M.A., Instructor in Economics.

J. EVAN ARMSTRONG, A.B., Instructor in Stenography and Typewriting.

CHARLES C. STAHLING, Ph.B., Instructor in Accounting.

ELBERT A. KINCAID, M.A., Instructor in Economics.

LOUISE MORROW, A.B., M.D., Assistant in Social Economics.

CLARA E. MORTENSON, M.S., Assistant in Economics.

FELIX FLÜGEL, M.A., Assistant in Economics.

*Facilities for Graduate Study.*—The University Library is well supplied with works on economic subjects, and in particular with official statistical publications of the chief commercial countries of the world. These materials, with the official trade documents of the San Francisco Customs House, afford opportunity for the study of the trade, resources, and economic geography of particular countries and ports. The unique collection of local materials in the Bancroft Library is available for research in the economic history of the Pacific Coast. A collection of state reports and documents on public finance, complete for the last nine years, and in some instances extending over a longer period, may be consulted in the private library of Professor Plehn.

Special facilities also exist at Berkeley for the study of economic problems at first hand. San Francisco is the banking center of the Coast; and the banking system here is peculiar because of the actual circulation of gold coin, direct Oriental and European exchange, and crop movements practically continuous throughout the year. San Francisco is also the terminus of three great railways. The distance of California from the Middle West has given great importance to questions of transportation,

<sup>1</sup>In residence first half-year only; <sup>2</sup>, second half-year only.

and rate questions are subjects of constant interest. Mention may also be made of the completeness of labor organization in some parts of California and of its absence in others, of problems of seasonal labor, of the presence of newly opened oil fields, free as yet from control of the trusts, of irrigating plants, lumbering on a large scale, experiments in co-operation, and the like.

To those interested in social work the high level of income in San Francisco and the consequent importance of preventive or constructive charity also affords matter for investigation.

The courses prerequisite to advanced work in the Department of Economics are Economics 1A-1B and either Political Science 1A, 1B, or History 1A-1B. A reading knowledge of French and German is eminently desirable, and will ordinarily be required of students in the College of Commerce or honor-students in economics.

*Honor-students in the Upper Division.*—Students in the College of Letters and Science may receive honors in economics at graduation either

1. Upon the intelligent completion of a course of reading in some general field, or,
2. Upon the basis of a thesis showing ability to do original work.

In either case, candidates for honors must prepare a programme at the beginning of their candidacy in consultation with a committee of the department appointed to supervise their work. On approval of this plan of study, the student will proceed to its completion in close co-operation with his committee, attending conferences and making such reports of progress as may be asked for. Students are advised against too narrow specialization. In most cases, the junior year will be spent in preliminary reading. In the senior year, those students who desire to take honors on the basis of reading alone will make that reading more intensive, and will prepare for a final oral examination in which their attainment will be tested; while those who desire to engage in research will prepare a thesis embodying their results.

Honor-students will be allowed much freedom in their studies. To justify this, the work which they do must be consistently of high quality. The department will recommend the exclusion from the honor-group of all students who do not maintain each half-year an average of at least sixty per cent of first and second grades in all their courses and who do not complete their courses in economics with high credit.

All senior students will enroll in course 199A-199B. Juniors, subject to the approval of the department committee on honors, will either enroll in Course 198A-198B or be assigned to various courses in economics as their individual needs may require.

### LOWER DIVISION COURSES

#### A. Elementary Stenography and Typewriting. Mr. ARMSTRONG.

Recitations four hours a week, each recitation requiring outside preparation; and in addition four hours a week of typewriting under the instructor's supervision. Exclusively for students in the College of Commerce and for students preparing for the teaching of commercial work in the high schools. Not open to special students.

8 hrs., either half-year; 4 units. First half-year: M Tu Th F, 1-3; second half-year: M Tu Th F, 3-5. Fee, \$10.

- B. Intermediate Stenography and Typewriting.** Mr. ARMSTRONG.  
 8 hrs., either half-year; 4 units. First half-year: M Tu Th F, 3-5; second half-year: M Tu Th F, 1-3. Prerequisite: course A. Fee, \$10.
- 1A-1B. Principles of Economics.**  
 Professors PLEHN, HATFIELD, HUTCHINSON, and DAGGETT, Associate Professors PEIXOTTO, STEBBINS, and CROSS, Assistant Professor BROOKS, Mr. MACAULAY, and Assistants.  
 3 hrs., throughout the year. Lecture: Tu, 9, and two periods a week of section work to be arranged. Prescribed for all students in the College of Commerce. Prerequisite: at least sophomore standing.
- 3A. Introduction to Economic Geography.** Professor HUTCHINSON.  
 The relations between geography and economics.  
 3 hrs., second half-year. M W F, 10. Prerequisite: Geography 1A.
- 3B. The Geography of International Trade.** Professor HUTCHINSON.  
 The economic geography of the chief modern commercial nations.  
 3 hrs., first half-year. M W F, 10. Prerequisite: course 3A.
- 6. Advanced Stenography and Typewriting.** Mr. ARMSTRONG.  
 8 hrs., second half-year; 4 units. M Tu Th F, 2-4. Prerequisite: courses A and B. Fee, \$10.
- 14A-14B. Principles of Accounting.**  
 Professor HATFIELD and Mr. STAEHLING.  
 4 hrs., throughout the year; 3 units each half-year. Recitation, Tu Th, 8. Laboratory periods, eight sections: I, W, 3-5; II, Th, 10-12; III, Th, 2-4; IV, F, 2-4; V, M, 10-12; VI, M, 1-3; VII, Tu, 10-12; VIII, Tu, 2-4. Prerequisite: at least sophomore standing. Students enrolling in this course may take an extra laboratory period each half-year with one additional unit credit.

## UPPER DIVISION COURSES

*Theory*

- 100. Economic Theory.** Mr. MACAULAY.  
 An intermediate course in theory.  
 3 hrs., first half-year. M W F, 9. Prerequisite: course 1A-1B.
- 101. History of Economic Thought.** Mr. MACAULAY.  
 A review of economic thought from the earliest times through Adam Smith.  
 3 hrs., second half-year. M W F, 9. Prerequisite: course 1A-1B.
- 102. Classical Economists.** Mr. MACAULAY.  
 A critical and historical study of the English classical school.  
 3 hrs., first half-year. M W F, 10. Prerequisite: course 1A-1B.

## 103. Advanced Economics.

Mr. MACAULAY.

An introduction to modern mathematical and statistical economic theory.

3 hrs., second half-year. M W F, 10. Prerequisite: course 1A-1B.

## 104. Economic Cycles.

Mr. MACAULAY.

An analytic study of the economic phenomena of business prosperity, crisis, depression and revival. A critical examination of some of the more important modern theories.

2 hrs., second half-year. M W, 11. Prerequisite: course 1A-1B.

## 106. Contemporary Theories of Social Reform.

Associate Professor PEIXOTTO.

The principles and programmes of the leading reform movements of the day which aim at the partial or total reconstruction of industrial society, with some historical review of these movements.

3 hrs., first half-year. M W F, 3. Prerequisite: course 1A-1B and at least junior standing.

*Economic History*

## 110. Economic and Commercial History.

Associate Professor CROSS.

A general survey of some of the most important events in the economic history of the world.

3 hrs., first half-year. M W F, 9. Prescribed for students in the College of Commerce.

## 111. Industrial History of the United States.

Professor DAGGETT.

A broad discussion of economic conditions in the United States from 1789 to 1915.

3 hrs., second half-year. M W F, 9.

## \*112. Modern Industrialism.

Associate Professor CROSS.

The rise and development of the modern industrial system with special reference to the workings of competition; the trust problem.

3 hrs., second half-year. M W F, 9. Prerequisite: course 1A-1B.

*Business Organization and Management*

## 120. Business Organization and Administration.

A survey of the problems which rise in production within the factory and in the sale and distribution of the product.

2 hrs., first half-year. Tu Th, 9. Prerequisite: course 1A-1B.

## 121. Factors of Industrial Efficiency.

Modern competitive production. Limited usually to seniors in the College of Commerce and seniors whose major is economics. The consent of the instructor must be obtained before enrollment.

2 hrs., first half-year. Tu Th, 10.

\* Not to be given, 1917-18.

**122. Office Organization, Administration and Procedure.**

A detailed study of the problems which arise in the organization, administration, and procedure of the American office. Exclusively for students in the College of Commerce and for students preparing for the teaching of commercial work in the high schools. Not open to special students.

2 hrs., first half-year. Tu Th, 2.

**125. Advertising.**

Assistant Professor BROWN.

The principles governing the choice of media, the frequency of appeal, the amount and nature of the matter, and the choice of methods of appeal, with emphasis upon experimental methods of measuring the effectiveness of advertising. Weekly lectures, investigation and criticism of advertisements, and one hour of conference.

2 hrs., second half-year. Lecture, Th, 7:30 p.m. Conference hours to be arranged.

**126. Economics of Agriculture.**

Mr. KINCAD.

Agricultural commerce, economic factors in agricultural production, land values, rural credits, and, in general, rural economics.

3 hrs., second half-year. Tu Th alt. S, 11. Primarily for students in the colleges of Agriculture and Commerce.

**127A-127B. Commercial Reviews and Trade Journals.**

Associate Professor CROSS and —.

Reading of current commercial and trade journals.

1 hr., throughout the year; 1 unit each half-year. Tu, 4. Prescribed for and open only to seniors in the College of Commerce.

**Finance****130. American Financial Policy.**

Professor PLEHN.

The legislation and experience of the United States touching currency, banking, debt, taxation, expenditure, etc.

3 hrs., second half-year. M W F, 2. Prerequisite: course 1A-1B.

**131. Introduction to Public Finance.**

Professor PLEHN.

The theory and methods of taxation; the expenditure and administration of public funds; public debts.

3 hrs., first half-year. M W F, 2.

**133. Corporation Finance.**

Professor HATFIELD.

2 hrs., first half-year. Tu Th, 3.

**134. Investments.**

Professor HATFIELD.

3 hrs., second half-year. M W F, 8.

**135. Elements of Money and Banking.**

Associate Professor CROSS.

3 hrs., first half-year. M W F, 10.

**136. Foreign Exchange.**

Associate Professor CROSS.

3 hrs., second half-year. M W F, 9. Prerequisite: course 135.

137. **Advanced Money and Banking.** Associate Professor CROSS.

3 hrs., second half-year. M W F, 10. Prerequisite: course 135.

**Economic Cycles.** [See course 104.]

Mr. MACAULAY.

*Statistics and Insurance*

140. **Elementary Statistics.** Assistant Professor BROOKS.

The history, theory, and methods of statistics. Statistical methods used in research and in the presentation of facts in economic, social, hygienic, biological and other fields where such methods have a practical or a scientific application. A knowledge of higher mathematical analysis is not required.

4 hrs., second half-year, including one laboratory period; 3 units. Tu Th, 11, and a laboratory period to be arranged.

141. **Statistics in the Service of Business.**

Mr. MACAULAY.

3 hrs., first half-year, including one laboratory period. M W, 11, and a laboratory period to be arranged. Prerequisite: course 140. Class to be limited at the discretion of the instructor.

\*142. **Advanced Statistics.**

Assistant Professor BROOKS.

A mathematical treatment of frequency curves and the theory of correlation.

2 hrs., second half-year. Tu Th, 10. The consent of the instructor must be obtained before enrollment.

143. **Economics of Insurance.**

Assistant Professor BROOKS.

An elementary course in the principles of insurance. Mathematical treatment will be avoided, as far as possible.

2 hrs., second half-year. Tu Th, 9.

144. **Life Insurance.**

Assistant Professor BROOKS,

History of life insurance; forms of company organization and management; surplus; taxation. Mathematical treatment will be avoided.

3 hrs., second half-year. M W F, 9. Prerequisite: course 143.

\*145. **Property Insurance.**

Assistant Professor BROOKS.

Fire, marine, burglary, automobile, plate glass, boiler, fly-wheel, etc.

3 hrs., first half-year. M W F, 9. Prerequisite: course 143.

146. **Social Insurance.**

Assistant Professor BROOKS.

Health, unemployment, workmen's compensation, industrial and old age insurance.

3 hrs., second half-year. M W F, 10.

147. **Special Problems in Social Insurance.**

2 hrs., second half-year, to be arranged. Limited to a small number of students whose records indicate ability to do advanced work. The consent of the instructor must be obtained before enrollment.

---

\* Not to be given, 1917-18.



- 148B. Actuarial Science. Assistant Professor BROOKS.  
The mathematical theory of insurance.  
3 hrs., second half-year. Tu Th S, 10. The consent of the instructor must be obtained before enrollment.  
NOTE.—Students who wish to prepare themselves for actuarial work should confer with the instructor concerning the best choice of their mathematical courses.

*Labor*

150. Labor Problems.  
The labor problems of modern industry with particular reference to America since the rise of the big corporation.  
3 hrs., second half-year. M W F, 10. Prerequisite: course 1A-1B.  
151. Labor Legislation.  
The development and present status of labor legislation in industrial countries.  
3 hrs., second half-year. M W F, 9. Prerequisite: course 1A-1B.

*Accounting*

160. Accounting Systems. Professor HATFIELD.  
Principles of accounting as applied to different forms of enterprise.  
3 hrs., first half-year. M W F, 8. Prerequisite: course 14A-14B.  
161. Cost Accounting. Mr. FORBES.  
4 hrs., second half-year; 2 units. W, 7:30-9:30 p.m. and one laboratory period to be arranged. Open to advanced students on consent of instructor.  
162. Auditing. Mr. FORBES.  
Open only to students who have completed course 14A-14B or who give other evidence of competency.  
2 hrs., first half-year. W, 7:30-9:30 p.m.  
163A-163B. Advanced Accounting Problems. Professor HATFIELD.  
Investigation and reports on suggested topics.  
2 hrs., throughout the year. Class to be limited at the discretion of the instructor.  
164A-164B. Public Utility Accounts. Mr. FORBES.  
1 hr., throughout the year. Th, 8. Prerequisite: course 14A-14B.  
\*165A-165B. Municipal Accounts. Mr. FORBES.  
1 hr., throughout the year. Th, 8. Prerequisite: course 14A-14B.  
166. Teachers' Course. Professor HATFIELD.  
The scope and methods of teaching bookkeeping and allied subjects in the high school.  
2 hrs., second half-year. Hours to be arranged. Prerequisite: a knowledge of bookkeeping.

---

\* Not to be given, 1917-18.

167. Partnership Accounts. Mr. STAHLING.  
2 hrs., second half-year. Tu Th, 8. Prerequisite: course 14A-14B.

*Transportation and Foreign Trade*

- 170A-170B. The Statistics of International Trade. Professor HUTCHINSON.  
2 hrs., throughout the year. Tu Th, 2. Prerequisite: at least junior standing and a reading knowledge of some modern European language other than English. The consent of the instructor must be obtained before enrollment.
171. Economic Geography of South America. Professor HUTCHINSON.  
2 hrs., second half-year. Tu Th, 9. Prerequisite: course 3A.
- 172A-172B. The Commerce of the Orient. Mr. SHUEY.  
The commercial development of the oriental countries in recent years, with special reference to China and Japan.  
2 hrs., throughout the year. Weekly two-hour evening session to be arranged to suit the convenience of the class. Prerequisite: junior standing.
173. Railway Economics. Professor DAGGETT.  
A general discussion of railway history, rates, finances, and regulation.  
3 hrs., first half-year. M W F, 2. Prerequisite: course 1A-1B.
- \*174. Railway Traffic. Professor DAGGETT.  
Railway organization, forms, accounts, rates and rate construction.  
3 hrs., second half-year. M W F, 3. Prerequisite: course 173.
175. Railroad Regulation. Professor DAGGETT.  
Mainly concerned with the Interstate Commerce Act.  
3 hrs., second half-year. M W F, 2. Prerequisite: course 173.
176. The History of Railroads in California. Professor DAGGETT.  
3 hrs., first half-year. M W F, 3. Prerequisite: course 173.
177. Public Utility Finance. Mr. SINSHEIMER.  
The regulation of public utilities, with special reference to the issues of their securities.  
2 hrs., first half-year. Tu, 7:30 p.m. Prerequisite: courses 14A-14B and 173.

*Social Economics*

180. The Control of Poverty. Associate Professor PEIXOTTO.  
Studies of the facts and causes of poverty and of contemporary proposals for its prevention. Lectures, reports, visits to appropriate philanthropic and industrial institutions, and other field work. An additional unit will be given to those who elect to take the excursions and field studies offered in connection with the course.  
3 hrs., first half-year. M W F, 2. Prerequisite: course 1A-1B and at least junior standing.

\* Not to be given, 1917-18.

181. Care of Dependents. Associate Professor STEBBINS,  
The problems of outdoor and institutional care of the dependent and defective classes. Lectures, reports, and field work.  
3 hrs., second half-year. M W F, 3. Prerequisite: course 180 or its equivalent.
182. The Household as an Economic Agent. Associate Professor PEIXOTTO.  
Studies in the theory and practice of spending, with special reference to household budgets.  
3 hrs., second half-year. M W F, 2.
183. Crime as a Social Problem. Associate Professor PEIXOTTO.  
3 hrs., second half-year. M W F, 3.

*Honor-Courses*

- 198A-198B. Honor-Course for Juniors. The STAFF.  
Throughout the year. Hours to be arranged.
- 199A-119B. Honor-Course for Seniors. The STAFF.  
Throughout the year. Hours to be arranged.

## GRADUATE COURSES

Graduate students are also referred to "Upper Division Courses" listed in the preceding pages.

- 201A-201B. Conference in Economic. Professor PLEHN and Members of the Department.  
Under this head are included arrangements for the guidance of the work of graduate students in the preparation of theses for higher degrees. Subjects may be chosen in the following fields: accounting (HATFIELD); economic theory (MACAULAY); foreign trade (HUTCHINSON); insurance (BROOKS); money, banking, and foreign exchange (CROSS); public finance (PLEHN); social economics (PEIXOTTO); stenography (ARMSTRONG); transportation (DAGGETT). The results will be presented to the seminar for discussion as occasion may suggest.  
2 hrs., throughout the year. Alternate W, 7:30 p.m.
- 202A-202B. Advanced Studies in Social Economics. Associate Professor PEIXOTTO.  
Research in problems of social economics.  
3 hrs., throughout the year. Alternate M, 7:30-9:30 p.m., and additional hours to be arranged.

**203A-203B. Advanced Studies in Social Economics.**

Associate Professor PEIXOTTO and Dr. MORROW.

Field work in connection with course 202A-202B. Students who register in this course give three half-days weekly as volunteer members of staff in the offices of state commissions, private charities, juvenile courts, or kindred agencies, or carry on some social study under direction.

Throughout the year; 3 units each half-year. Hours to be arranged.

**204A-204B. Government Finance.**

Professor PLEHN.

War finances of the nations involved in the great war.

2 hrs., throughout the year. M, 3-5. Prerequisite: course 131.

**COURSES IN OTHER DEPARTMENTS**

Social Psychology. [See Philosophy 145.]

Philosophies of Social Relations. [See Philosophy 45A-45B.]

Co-operation in Marketing. [See Rural Institutions 201.]

Rural Credits and Land Settlement. [See Rural Institutions 202.]

Fundamentals of Modern Geography. [See Geography 1A.]

Geography of the Americas. [See Geography 116A.]

Geography of Europe. [See Geography 116C.]

Commerce and Industry of Japan. [See Oriental Languages 121A-121B.]

The Economic Conditions of China. [See Oriental Languages 128A-128B.]

**EDUCATION**

**ALEXIS F. LANGE, Ph.D.**, Professor of the Theory and Practice of Education and Director of the School of Education.

**RICHARD G. BOONE, Ph.D.**, Professor of Education.

**IRA W. HOWERTH, Ph.D.**, Professor of Education.

**CHARLES E. RUGH, M.L.**, Professor of Education.

**WILLIAM W. KEMP, Ph.D.**, Professor of School Administration.

**W. SCOTT THOMAS, A.B.**, Assistant Professor of Education and Examiner of Schools.

**JOHN S. BOLIN, M.A.**, Instructor in Education.

Undergraduate and graduate courses are offered which may serve non-professional as well as professional purposes. It is believed that such courses provide instruction which is desirable for individual culture and training and as preparation for that intelligent participation in public and private education which good citizenship demands of educated men and women.

The courses properly preliminary to advanced work in the Department of Education are Philosophy 1 (Logic), or Zoology 1, or Physiology 1, or Political Science 1A or 1B, or Economics 1A-1B; Philosophy 2A (Psychology), and Philosophy 104A-104B (Ethics). The course in ethics may, however, be taken concurrently with major courses in education. A student in the upper division who is specializing in education should normally elect Education 116 and one of the following courses: Jurisprudence 109 (School Legislation of California), Economics 106 (Contemporary Theories of Social Reform), Hygiene 101 (Child Hygiene), and Zoology 104 (Animal Behavior).

Special provision is made for the professional training of teachers of three classes:

A. Those preparing to become teachers in secondary schools or in colleges.

For the conditions under which recommendations for Teachers' Certificates of the high school grade are issued, see Announcement of the School of Education. For the year 1917-18 the 15 units for professional requirements may be made up as follows:

I. HISTORY OF EDUCATION. Either 103B, 3 units, or 125, 3 units.

II. THEORY OF EDUCATION. Required, either 105B, 2 or 3 units; or 107, 2 units; or 121, 3 units; or 226, 2 units.

III. THEORY AND METHOD OF SCHOOL PRACTICE. Required, 223, 1 unit.

IV. PRACTICE TEACHING. Required, 201, 4 units.

In addition, "a teacher's course in at least one subject, if such course be given in the institution and be accepted by or listed under the work in education, a maximum of three units for all such courses."

It is very desirable that Philosophy 2A (Psychology), or an equivalent course be taken as preliminary to these courses or as a companion course with one or more of them. Students who have not had such preparation will be expected to take readings in psychology in connection with the courses listed above, and to pass an examination in this subject in case they desire to qualify for the recommendation for the High School Teacher's Certificate. For other desirable courses see the foregoing statements concerning courses preliminary to advanced work. Students are expected to distribute the work over their senior and graduate years.

B. Those preparing to engage in school administration, to become principals or superintendents of public schools, or to teach in normal schools or in college departments of education.

Special courses will be arranged to meet the needs of individual students.

C. Graduates of normal schools, who are making further preparation for teaching in elementary schools.

## UPPER DIVISION COURSES

### *History of Education*

#### 103A. The History of Education: Earlier Periods. ———.

The development of educational thought and practice up to the close of the medieval period.

2 hrs., second half-year, to be arranged.

#### 103B. The History of Education: Later Periods.

Professor KEMP and Mr. BOLIN.

The development of educational thought and practice from the Renaissance to the present, viewed as a phase of social progress.

3 hrs., either half-year. Three sections: I, M W F, 8; II, M W F, 3; III, to be arranged.

#### 125. The History of American Education.

Professor BOONE and Mr. BOLIN.

An historical study of the leading ideas and ideals of American education and of the institutions in which they have been embodied.

3 hrs., either half-year. Three sections: I, III, M W F, 8; II, M W F, 2.

### *Educational Psychology*

#### 110. The Psychological Basis of Secondary Education. Professor BOONE.

An investigation into the processes and methods of learning and of teaching from the point of view of the psychology of adolescence.

3 hrs., first half-year. M W F, 10.

#### 111. Social Psychology.

Professor HOWARTH.

A study of the evolution and functioning of the social mind, with special reference to education.

2 hrs., second half-year. Tu Th, 2.

#### 117. Selected Topics in Educational Psychology.

Hours to be arranged.

*Theory of Education*

- 104A. The Biological Principles of Education. Professor HOWERTH.  
The biological foundations of educational theory. The principles and practices of formal education as based upon and derived from the methods of nature in the development of plants, animals, and man.  
3 hrs., first half-year. M W F, 2.
- 104B. The Sociological Principles of Education. Professor HOWERTH.  
A study of the evolution of society and of social institutions, with particular reference to the relation of formal education to the progress of society.  
3 hrs., second half-year. M W F, 2.
- 105A. The Theory of Education. Professor LANGE.  
A study of fundamental principles, processes, and methods, with special reference to national culture and ideals.  
3 hrs., first half-year. M W F, 9.
- 105B. The Principles of Secondary Education.  
Professors LANGE and BOONE.  
A study of the theoretical and the broader practical aspects of the secondary stage of education, with special reference to the American high school system.  
2 hrs., either half-year. Two sections: I, M W, 9; II, M W, 11.  
Professor BOONE.  
3 hrs., second half-year. Section III, M W F, 9. Professor LANGE.
121. The High School. Assistant Professor THOMAS.  
A study of the concrete problems of the high school, with particular reference to questions of aims, curriculum, instruction, and management.  
3 hrs., first half-year. Two sections, M W F, 2 and 3.
126. Principles of Elementary Education. Professor RUGH.  
A course for principals and teachers in the elementary schools.  
2 hrs., first half-year. Tu Th, 3.
127. Moral Education. Professor RUGH.  
The moral life as a personal response to the social order. The school as a means of moral education.  
2 hrs., second half-year. Tu Th, 8.

*School Organization and Administration*

106. School Systems. Assistant Professor THOMAS.  
The development and present status of typical European systems of education, particularly those of Germany, France, and England.  
2 hrs., first half-year. Tu Th, 10.

107. *The Administration of Public Education.* Professor KEMP.  
2 hrs., either half-year. M W, 3.
108. *Contemporary Movements in Education.* Professor KEMP.  
A survey of educational discussion and practice touching on urgent administrative problems of the day. The course is designed primarily for advanced students with teaching experience who desire to prepare for the administrative side of school work.  
2 hrs., first half-year. S, 10-12. Prerequisite: course 107 or teaching and administrative experience.
109. *Problems in the Administration and Supervision of Schools.* Professor KEMP.  
Designed primarily for advanced students with teaching experience who desire to prepare for the administrative side of school work.  
2 hrs., second half-year. S, 10-12. Prerequisite: course 107 or teaching and administrative experience.
112. *The Intermediate School.* Professor RUGH.  
2 hrs., first half-year, to be arranged.
114. *The American University-College.* Professor LANGE.  
The evolution, character, and function of the American university as an organ of the body politic; its organization in the light of its inherent purposes; curricula and instruction; the meaning of academic citizenship; relation of student activities to university aims; progressive policies; the Junior College movement. Lectures, discussions, debates.  
2 hrs., first half-year. Tu, 3-5.
116. *Pro-seminar: Selected Topics in the Theory and Practice of Secondary Education.* Professors BOONE and KEMP.  
2 hrs., either half-year, to be arranged. Prerequisite: at least two of the preceding courses. Admission only on consultation with the instructor.

## FREE ELECTIVE COURSE

11. *Education and Culture.* Mr. BOLIN.  
Stereopticon lectures on the evolution of educational thought and practice.  
1 hr., first half-year. M, 4.

## GRADUATE COURSES

## RESEARCH COURSES

207. *Educational Seminar.* Professor LANGE.  
Topics change from year to year. Admission only on consultation with the instructor.  
2 hrs., throughout the year. M, 7:30-9:30 p.m.



**208. Public Administration of School Systems. Seminar.**

Professor KEMP.

2 hrs., throughout the year. W, 7:30-9:30 p.m.

**210. Society and Education.**

Professor HOWERTH.

Social phases of education, including an intensive study of one or more of the great treatises on the subject of education from the social viewpoint. The particular author to be studied will be selected after consultation with the class.

2 hrs., first half-year. Th, 4-6.

**211. School Organization.**

Professor LANGE.

The parts of the state school system and their articulation, with special reference to secondary education in California. Admission on consultation with instructor.

2 hrs., second half-year. Th, 7:30-9:30 p.m.

**215. Special Studies.**

The Department Staff.

This course offers an opportunity for individual and for group study of the seminar type. During the past two years several groups have been at work, one on vocational guidance, another on vocational opportunities for college women, a third on the intermediate school, and a fourth on school legislation. These are likely to be continued. Suggested for group study: educational surveys, educational research bureaus, organization of vocational training, rural life and education, social centers, supplementary educational agencies.

Hours to be arranged.

**PROFESSIONAL COURSES****218. Language and Literature in Secondary Schools. Professor LANGE.**

Language and literature as educational means; principles, material, and methods of instruction; the arts of interpretation and translation; practical exercises, oral and written.

3 hrs., first half-year. M W F, 10.

**226. Introduction to Educational Method.**

Professor RUGH.

The school subjects, their nature and subdivisions into lessons; the nature, place, and assignment of the lesson; the recitation; principles of explanation applied to high school subjects.

2 hrs., first half-year. Tu Th, 3.

**222. Principles of Study and Presentation.**

Assistant Professor THOMAS.

A consideration of the psychological fundamentals of study and its direction; typical processes in their relation to general educational theory.

2 hrs., first half-year. S, 9-11.

223. School Management. Professor RUGH.  
1 hr., either half-year. Th, 4.
219. Vocational Training. Professor BOONE.  
Principles, materials, and methods of instruction.  
3 hrs., second half-year. M W F, 10.
201. The Practice of Teaching. Professor RUGH and Mr. BOLIN.  
Lectures, readings, and conferences, together with school observation and practice of teaching, under the direction of the instructor. The school observation and practice teaching ordinarily require one period daily for five days a week, but students are expected to have two consecutive free hours between 9 and 3 o'clock throughout the week in order to facilitate making the teaching assignments. Required of all candidates for the Teacher's Recommendation whose pedagogical training is taken at this University.  
4 hrs., either half-year. W F, 4; and a conference hour to be arranged. Prerequisite: I, Education 103B, or 125; II, Education, 105B, or 121 or 127; and III, Education 223. But the course elected under III may be taken in conjunction with this course.

TEACHERS' COURSES ARE OFFERED IN THE SCHOOL OF EDUCATION BY THE  
DEPARTMENTS LISTED BELOW.

Agriculture.	Hygiene.
Drawing and Art.	Latin.
Economics.	Music.
Education.	Physical Education.
English.	Physics.
Geography.	Physiology.
German.	Public Speaking.
History.	Romanic Languages.
Home Economics.	Zoology.

**ENGLISH**

CHARLES MILLS GAYLEY, Litt.D., LL.D., Professor of the English Language and Literature.

CORNELIUS B. BRADLEY, M.A., Professor of Rhetoric, Emeritus.

\*CHAUNCEY W. WELLS, A.B., Associate Professor of English Composition.

WILLIAM D. ARMES, M.L., Associate Professor of American Literature.

WALTER M. HART, Ph.D., Associate Professor of English Philology.

BENJAMIN P. KURTZ, Ph.D., Associate Professor of English.

THOMAS F. SANFORD, A.B., Assistant Professor of English Literature.

HERBERT E. CORY, Ph.D., Assistant Professor of English.

HAROLD L. BRUCE, Ph.D., Assistant Professor of English Composition.

EMMA J. BRECK, Ph.B., Lecturer in the Teaching of English.

GEORGE R. MACMINN, A.B., Instructor in English.

\*LEONARD BACON, A.B., Instructor in English.

WILLIAM W. LYMAN, JR., M.A., Instructor in Celtic and English.

ARTHUR G. BRODEUR, Ph.D., Instructor in English Philology.

AUBREY BOYD, M.A., Instructor in English.

GUY MONTGOMERY, M.A., Instructor in English.

WILLIAM CHISLETT, JR., Ph.D., Instructor in English.

ROBERT H. CLARK, A.B., Instructor in English.

ADOLPH E. ANDERSON, A.B., Teaching Fellow in English and Secretary of the Committee on Students' English.

JOHN L. SEYMOUR, A.B., Teaching Fellow in English.

**INFORMATION FOR LOWER DIVISION STUDENTS**

*Prescribed and Prerequisite Courses.*—Regular students who undertake the work of this department must have credit for entrance English 1 or 14. Applicants for special status who intend to take courses in the department of English may be required to pass the regular matriculation examinations at the usual time and place. Such applicants should consult the secretary of the department by letter, or personally, concerning the preliminary reading or formal entrance examinations to be required of them.

Course 1A-1B, or Public Speaking 1A-1B, fulfills the prescription for all colleges and curricula; and one or the other must be taken by all students, special as well as regular, before they can be admitted to courses of the upper division. Students desiring to engage in systematic study in the upper division must add to the preceding, one of the lower division year-courses 2, 3, 17, 25; and, if desired, such course may be taken at the same time as course 1. Courses 1C and 1D are specially designed to meet the needs of students in the colleges of applied science and commerce. The attention of foreign students is called to course 1E.

*Elective Courses.*—Courses 3A-3B, 4E-4F are open to all students without prerequisite. Courses 110A-110B, and 111A, also may be taken as lower division electives by sophomores who have had course 1.

\* Absent on leave, 1917-18.

### INFORMATION FOR UPPER DIVISION STUDENTS

*Elective Courses.*—The courses listed under the heading Free Electives are open, without any prerequisites, to all students in the upper division. The courses listed as major courses are also open as electives to students in the upper division who have had the prerequisites specified in each case. When no prerequisites are specified the courses are open to upper division students who have passed in course 1A-1B, or Public Speaking 1A-1B.

*Systematic Study.*—Students who wish to undertake systematic study in the upper division must have completed English 1A-1B, or Public Speaking 1A-1B, and one of the year courses 2, 3, 17, 25. The 12 units of major courses which by university regulation must be chosen from one department, may be made up from any upper division major courses. But all who desire to engage in comprehensive and thorough study, whether for general or professional purposes, should meet the following conditions:

1. Students must present, ordinarily in the first term of the junior year, a programme to be examined and approved by the department. The programme, however, may be amended from time to time after consultation with the department.

2. The programme should cover 24 units of upper division major courses.

3. Of the 24 units, 12 must be in one special field or subject, as for example, Early English, the Drama, Fiction and Essay, Elizabethan Poetry and Prose (inclusive of the Bible), Romantic Movement and Nineteenth Century Poetry and Prose, or the literature of any significant period or movement; or the Theory of Poetry in combination with any field in modern literature.

4. Of the 24 units, 3 must be in a pro-seminar. These may or may not be included in the 12 in the special field.

5. Normally the courses constituting the 24 units should be drawn from the list of courses in English, supplemented by the list of major courses in public speaking; but the department may be willing in exceptional cases to accept, on petition, units from other departments. For example, a student who specializes in fiction might offer certain courses in French or Russian fiction; in the drama, courses in Greek or Latin or French or German drama, etc. Under this head attention is called to Linguistics 101A (Phonetics) and German 210A-210B (English Influences upon German Literature). The 12 units in the special field and the pro-seminar must, however, be in English.

6. The student must pass, at the end of the senior year, English Final Examinations Nos. 1 (History of the Language) and 2 (History of the Literature); but he may be excused from Finals I if he has had either (a) 6 units from courses 110-111, or (b) 12 units in Latin or Greek or both, of university grade, or (c) at least 6 upper division units in one of the following subjects: political science, economics, history, philosophy.

7. At the end of the senior year the student must present, as evidence of powers of research and expression, a thesis written in connection with one of his courses, usually the pro-seminar.

*Honor-students in the Upper Division.*—A student in the upper division who has received honorable mention with the junior certificate may be registered as a candidate for honors provided 12 of the 48 hours on which the honorable mention was based consist of English 1A-1B, or Public

Speaking 1A-1B, and one of the year courses 2, 3, 17, 25. To maintain his status he must do at least thoroughly satisfactory (i.e., second grade) work in all of the upper division English courses in which he enrolls. A student who has forfeited his status may, however, regain it by passing at the beginning of the following regular half-year a thoroughly satisfactory special examination in the subject in which he was deficient. No special honor-courses are at present offered by this department, but in certain major courses students who are candidates for honors in English may arrange with the instructor for additional credit, the amount of which will be determined by the instructor after he has outlined with the student the additional work to be done. The assignment, which should be entered on the student's study-card as English 199, will involve not additional class exercises but occasional conferences with the instructor. To be recommended by the department for honors with the bachelor's degree a student must complete with distinction (i.e., with the majority of units in the first grade) all the seven conditions numbered above.

#### TEACHERS' RECOMMENDATIONS AND HIGHER DEGREES

The department of English issues a separate announcement which contains its requirements for recommendation for the teachers' certificate, and for the degrees of Master of Arts and Doctor of Philosophy.

#### LOWER DIVISION COURSES

##### 1A-1B. Exercises in the Art of Discourse.

Associate Professor KURTZ (in charge), Assistant Professors SANFORD, COBY, and BRUCE, Mr. MACMINN, Mr. LYMAN, Mr. BOYD, Mr. MONTGOMERY, Dr. CHISLETT, Mr. CLARK, and Mr. SEYMOUR.

Speaking and writing based upon prose models of the various forms of discourse. Course 1A-1B, or Public Speaking 1A-1B, must precede all other courses in English.

3 hrs., throughout the year. Twenty-four sections. M W F, 8, 9, 10, 1, 2, 3, 4; Tu Th S, 8, 9, 10. Also 1B (first half-year), M W F, 10, 1, and Tu Th S, 9; 1A (second half-year), M W F, 8, 9, 10, 1, 2, 3, and Tu Th S, 8.

##### 1C. Oral and Written Reports.

Associate Professor KURTZ, Assistant Professor BRUCE, and Mr. Montgomery.

A course of training adapted to the needs of students in the colleges of applied science and commerce. Students who have taken 1A-1B will not be admitted to this course, but students may proceed from 1C to 1A-1B. Enrollment limited to fifteen in a section.

3 hrs., either half-year. Three sections: I, II, M W F, 8; III, hour to be determined after consultation with students.

##### \*1D. Oral and Written Reports.

Mr. ———.

Continuation of Course 1C; enrollment limited to fifteen.

3 hrs., second half-year. M W F, 9. Prerequisite: at least second grade in Course 1C.

---

\* To be given, 1918-19.

- 1E. Oral and Written English for Foreigners. Mr. SEYMOUR.  
 Training in speaking and writing English. Special attention will be paid to pronunciation, grammatical construction, and the idiom of the language. To enter this course students must first obtain the consent of the instructor. Enrollment limited to twenty.  
 3 hrs., either half-year. M W F, 2.
- 2A-2B. History of English Literature. Associate Professor ARMES.  
 For scope of lectures see course 102A-102B.  
 3 hrs., throughout the year. M W F, 8. Preceptorial sections, 1 hour a week, to be arranged.
- 17E-17F. Shakespeare and his England. Professor GAYLEY.  
 For scope of lectures see course 117E-117F.  
 3 hrs., throughout the year. M W F, 2. Preceptorial sections, 1 hour a week, to be arranged.
- 25A-25B. Studies in the History of Story-Telling. Associate Professor HART.  
 For scope of lectures see course 125A-125B.  
 3 hrs., throughout the year. M W F, 10. Preceptorial sections, one hour a week, to be arranged.

#### FREE ELECTIVES IN EITHER DIVISION

- 3A-3B. Introduction to the Study of Poetry. Associate Professor KURTZ.  
 This course is designed to afford an historical perspective of European poetry and an introduction to the principles of criticism. It is offered both for those who desire a general acquaintance with poetry and for those who intend to select a European literature as a major. Lectures, reading of masterpieces in translation, frequent examinations.  
 3 hrs., throughout the year. M W F, 1.
- 4E-4F. Great Books. Professor GAYLEY and a Reader.  
 A discussion of masterpieces, English and foreign. Lectures, reading, and reports. The course is given in series, each of which may be taken once. Subject for 1917-18: Books about the war.  
 1 hr., throughout the year. F, 4. In the first half of the year this course is open to all students. In the second half it is limited to students in the colleges of applied science and commerce, and such others as have the permission of the instructor.
- 6B. Introduction to Narrative Writing. Mr. MACMINN and Mr. BOYD.  
 Practice in the simpler forms of description and of personal and impersonal narration; with analysis of masterpieces. Enrollment limited to fifteen in a section.  
 3 hrs., second half-year. M W F, 2. Prerequisite: course 1 and the consent of the instructors.

**\*7A. Advanced Exposition, Oral and Written.**

Associate Professor KURTZ.

Continuation of Course 1A-1B; preparation of theses with special reference to the methods of logical analysis and arrangement. Enrollment limited to fifteen.

3 hrs., first half-year. M W F, 10. Prerequisite: at least second grade in Course 1A-1B.

## UPPER DIVISION COURSES

## FREE ELECTIVE COURSES

**\*10E. English Verse.**

Mr. BACON.

The history and technique of one or more of the principal kinds, with frequent practice in composition.

3 hrs., either half-year. Tu Th, 2, and a third hour by arrangement. Open only to students who have the permission of the instructor.

**Public Speaking.**

Students are urgently advised to take one or more of the following courses in the department of Public Speaking: 5A-5B, Public Speaking; 107A-107B, Oral Interpretation; 114A-114B, Bible Reading.

**Greek Drama.**

Course 155, listed under this name in the announcement of the department of Greek, is warmly recommended to students of English drama.

## MAJOR COURSES

*Composition, Oral and Written***105B. Fundamentals of Critical Writing.**

Mr. MACMINN.

The more important critical principles in their application to standard English poetry and prose. In 1918, special study of selected dramatists.

3 hrs., second half-year. Tu Th, 3, and a third hour to be arranged.

**106B. Frequent Writing.**

Assistant Professor BRUCE, Mr. MACMINN, and Mr. BOYD.

For at least six weeks daily one-page exercises; discussions of style; appointments for individual criticism.

3 hrs., either half-year. First half-year, Tu Th, 3, and a third hour; second half-year, Tu Th, 3, and a third hour; M W, 2, and a third hour. Limited to fifteen in a section.

**\*106E-106F. The Essay.**

Associate Professor WELLS.

(E). Training in investigation and in presentation, oral and written; fortnightly compositions, and frequent *précis* and short articles. Class-study of a topic of present-day interest as a basis for writing. In 1913-14, American Traits; in 1914-15, Journalism; in 1915-16, the Present-Day Theatre; in 1916-17, the American College. Limited to twenty-four students.

---

\* To be given, 1918-19.

- (F). Essays on Men and Manners. Pro-seminar. Composition, oral and written, based upon a survey of the background of literature as seen in the diaries and letters and in the standard verse and prose of the period selected. In 1916-17, the Elizabethan Age. Limited to twelve students.

3 hrs., throughout the year. M W F, 3. Prerequisite: junior standing and the permission of the instructor.

*Principles of Literature: Interpretation and Criticism*

- \*109c. Problems of Literary Criticism. Associate Professor KURTZ.

Pro-seminar. The beginnings of poetry: analysis and classification.

3 hrs., first half-year. M W F, 9. Prerequisite: course 3A-3B.

- 110c-110d. The History of English Criticism. Assistant Professor COBY.

(c). Pro-seminar. Reading and reports. Masterpieces studied historically by types. The philosophical implications of literary criticism.

(d). Pro-seminar. Thesis writing on the basis of the materials of course 110c.

2 hrs., throughout the year. M W, 11.

*History of the Language*

Course 110A-110B, as a general survey, is recommended to all serious students of literature. It is also especially adapted to the needs of prospective teachers. Courses 111A, 111B, 111c, and 111d form a sequence dealing with the language and literature down to 1400. Although the work in these courses is, of necessity, largely linguistic, it is concerned also with the literature as such, and aims to study the masterpieces read as literary types and in connection with the life of the times that produced them. Throughout the sequence there is progressive training in the methods of literary and linguistic research. Course 112A aims to give a general survey of the origin and growth of the language as a basis for an understanding of its present condition.

- 110A-110B. General Introduction to English Philology. Dr. BRODEUR.

(A). The foundations of English; the literary and linguistic expression of Anglo-Saxon customs and beliefs.

(B). The Norman domination and the resurgence of native manners and speech. English from the Conquest to the present day. The evolution of forms, sounds, and meanings.

3 hrs., throughout the year. M W F, 8. Prerequisite: some acquaintance with Latin or German.

- 111A. Old English.

Dr. BRODEUR.

3 hrs., either half-year. Two sections: M W F, 9, 2.

- 111B. Beowulf.

Dr. BRODEUR.

Pro-seminar.

3 hrs., second half-year. M W F, 9. Prerequisite: course 110A or 111A.

\* To be given, 1918-19.



- 111C. Middle English: Language and Literature of the 13th Century.  
Associate Professor HART.

Pro-seminar.

3 hrs., first half-year. M W F, 9. Prerequisite: course 110A or 111A.

- 111D. Middle English: Chaucer and his Contemporaries.

Associate Professor HART.

Pro-seminar.

3 hrs., second half-year. M W F, 9.

- 112A. History of the English Language.

Dr. BRODEUR.

3 hrs., first half-year. M W F, 1.

- 112B. Historical English Grammar.

Dr. BRODEUR.

3 hrs., second half-year. M W F, 1.

*Historical and Critical Study of the Literature*

- 102A-102B. History of English Literature. Associate Professor ARMES.

Lectures covering the principal periods, movements, and masterpieces.

Special assignments adapted to advanced students.

3 hrs., throughout the year. M W F, 8.

- \*114A-114B. History of the Drama.

Associate Professor ARMES.

Lectures and readings, with reports by the students.

(A) From the Beginnings to 1642. (B) From 1642 on.

3 hrs., throughout the year. M W F, 10. Prerequisite: courses 1 and 2.

This course alternates with 114C-114D (Studies in the Drama).

- 114C-114D. Studies in the Drama.

Associate Professor ARMES.

(c). The Renaissance of the English Drama. Lectures, readings and discussions.

(d). Dramatic Construction: analysis of masterpieces, and application of principles to dramas written by students.

3 hrs., throughout the year. M W F, 10. 114C is prerequisite to 114D.

- \*115A. Elizabethan Poetry.

Assistant Professor SANFORD.

The principal poets from Surrey and Wyatt to Dryden; their literary forms, types, sources, and historical development. Lectures, reports, and assigned reading.

3 hrs., first half-year. M W F, 10. Prerequisite: courses 1 and 2.

- \*115B. Spenser.

Assistant Professor SANFORD.

3 hrs., second half-year. M W F, 10.

- \*116A-116B. The Bible in English Literature.

Professor GAYLEY and a Reader.

Literary types; qualities of thought and style; careful study of selected books. Lectures, reports, and frequent examinations.

3 hrs., throughout the year. M W F, 2.

\* To be given, 1918-19.

## \*117c-117d. Shakespeare.

Associate Professor HART.

The reading and interpretation of the plays in the following series:

(A) *Hamlet, Richard II, The Tempest*; (B) *Lear, 1 Henry IV, Twelfth Night*; (C) *Macbeth, 2 Henry IV, All's Well*; (D) *Othello, Much Ado, Winter's Tale*.

Each series may be taken once. Not to be given in 1917-18. In 1918-19 series (c) will be given the first half-year, and series (d) the second half-year.

3 hrs., throughout the year. M W F, 10.

## 117E-117F. Shakespeare and his England.

Professor GAYLEY.

Lectures. A presentation of the life, customs, and ideals of Shakespeare's age, based upon the study of a number of his plays and some of the works of his contemporaries. Special assignments adapted to advanced students.

3 hrs., throughout the year. M W F, 2.

## 118A. The Age of Dryden.

Assistant Professor SANFORD.

Pro-seminar. A detailed and intensive study of the literature of the Restoration, exclusive of the drama.

3 hrs., first half-year. M W F, 10.

## 119B. The Ages of Pope and Johnson.

Assistant Professor SANFORD.

The poetry of the eighteenth century from the death of Dryden to the French Revolution. Lectures, reports, and assigned reading.

3 hrs., second half-year. M W F, 10.

## 121A-121B. General History of Nineteenth Century Poetry.

Assistant Professor SANFORD.

Lectures; reports on assigned reading.

3 hrs., throughout the year. M W F, 9.

## 121E-121F. Victorian Prose.

Professor GAYLEY.

Pro-seminar. Intensive study of selected masterpieces dealing with problems of critical, philosophical, and political thought. Topics assigned for investigation. Theses and oral discussions. Open to seniors whose major is English, and who are taking one of the instructor's major lecture courses. Also to those who take it as Oral Debates upon Literary Topics as a sequel to Public Speaking 110A-110B. Limited to twenty students.

3 hrs., throughout the year. W, 4-6, and a third hour by arrangement.

## 122. Browning.

Assistant Professor SANFORD.

A systematic study of the complete poetical works of Browning. Lectures and interpretations. Open only to students in the Upper Division and to graduates.

3 hrs., second half-year. M W F, 2.

\* To be given, 1918-19.

- 123B. Representative Essayists. Assistant Professor BRUCE.  
Pro-seminar, 1917-18: Carlyle.  
3 hrs., second half-year. Tu Th, 4, and a third hour to be arranged.
- 124B. Shelley, Keats, and Tennyson. Associate Professor KURTZ.  
Pro-seminar. An intensive study of selected poems.  
3 hrs., second half-year. M W F, 9.
- 125A-125B. The Development of the Narrative Art. Associate Professor HART.  
Lectures. (A) The types of briefer narrative; (B) Medieval romance.  
Special assignments adapted to advanced students.  
3 hrs., throughout the year. M W F, 10.
- 126A-126B. The Classical Influence in English Literature. Dr. CHISLETT.  
Lectures and assigned readings. (A) The Nineteenth Century. (B)  
From the Beginnings to the Nineteenth Century.  
2 hrs., throughout the year. Tu Th, 2.
127. The Anglo-Celtic Poets. Mr. LYMAN.  
The poets of the so-called Celtic Renaissance, centering in Yeats and  
the modern school of Irish writers, with an investigation of their  
background in Old-Irish literature. Lectures, readings, and reports.  
3 hrs., first half-year. Tu, 2; Th, 2-4.

*American Literature*

130. The General History of American Literature. Associate Professor ARMES.  
A general review, illustrated by copious reading; lectures, reports, dis-  
cussions, and papers. Introductory to course 131, and to course 249  
(Californian Literature).  
3 hrs., first half-year. M W F, 9. Prerequisite: courses 1 and 2.
131. American Authors. Associate Professor ARMES.  
Pro-seminar. Each student will make an intensive study of practically  
all the work of one of the more important American authors, and  
present papers thereon for class discussion. The course may be  
taken as many times as a different author is studied.  
3 hrs., second half-year. M W F, 9. Prerequisite: course 130.
199. Assignments for Honors.  
In certain major courses candidates for honors may arrange with the  
instructor to undertake supplementary work for additional credit. For  
particulars, see above, *Honor-students in the Upper Division*.

## GRADUATE COURSES

Graduates electing these courses must have a reading knowledge of French or German.

## 231. Philological Seminar.

Dr. BRODEUR.

3 hrs., second half-year, to be arranged.

## \*240A-240B. Seminar in Literary Criticism.

Professor GAYLEY.

From a study at first hand of the principal authorities.

3 hrs., throughout the year. M, 4-6. This course must be preceded by course 109 or 110.

## 241A-241B. Seminar in Literary Investigation.

Professor GAYLEY.

Studies in the history of English comedy.

3 hrs., throughout the year. M, 4-6, and a third hour by arrangement. Open only to candidates for higher degrees.

## 242. Seminar in the Comparative Study of Literature.

Associate Professor HART.

Subject to be announced.

3 hrs., throughout the year. M, 2-4, and a third hour by arrangement.

## 243A-243B. Liberalism in Modern English Prose.

Assistant Professor CORY.

Seminar. Historical and comparative study of selected masterpieces by Hooker, Bacon, Locke, Hume, Adam Smith, Huxley.

3 hrs., throughout the year. F, 4-6, and a third hour by arrangement.

## 244A-244B. Seminar in the Romantic Movement.

Assistant Professor SANFORD.

The romantic literature from Chatterton to Morris, with incidental reference to the parallel movement on the Continent. A critical and historical study of romantic writers from Chatterton to Scott (first half-year); from Scott to Morris (second half-year).

3 hrs., throughout the year. M W, 11; F, 1. As preparation for this course, students are advised to take courses 115B, 119A, 119B. In 1918-19 the subject will be the naturalistic development from Thomson to Alfred Noyes.

## 249A-249B. Seminar in the Development of Californian Literature.

Associate Professor ARMES.

Investigation, reports, discussions, and papers. Open only to graduates who have had course 130 or its equivalent.

3 hrs., throughout the year. Th, 9-12.

\*To be given, 1918-19.

- \*250. Seminar in the Theory of Fiction.** Associate Professor WELLS.  
The structure of the novel and the aesthetics of fiction; investigation of selected types and of special authors.  
3 hrs., throughout the year. Tu Th, 4-5:30.
- 253. Teaching of English in Secondary Schools.** Miss BRECK.  
3 hrs., either half-year. Tu Th, 2-4. Required of candidates for the teacher's recommendation with English as a major. Primarily for graduates, but open to seniors who have the consent of the instructor. This course may not be counted towards the graduate credit required for the teacher's recommendation or the master's degree.
- 260A-260B. Special Study.**  
The instructors in English hold themselves ready to assist and advise competent students who may propose plans of special study which meet the approval of the department.

---

**\*To be given, 1918-19.**

## GEOGRAPHY

**RULIFF S. HOLWAY, M.S.,** Associate Professor of Physical Geography.

**BURTON M. VARNEY, M.A.,** Instructor in Geography.

*Honor-students in the Upper Division.*—Candidates for honors in geography must take course 103 or 118 in the senior year. Not more than 8 units of related work in other departments may be counted as an integral part of an approved plan of work. A summer field course in physiography is recommended.

Courses 1B and 1C are the usual prerequisites for upper division work. Either may be taken without prerequisite, but course 1A is a desirable introduction. Geology 106 should be taken preferably in the sophomore year.

## LOWER DIVISION COURSES

## 1A. Fundamentals of Modern Geography.

Associate Professor **HOLWAY** and Mr. **VARNEY**.

Scope and problems of modern geography. Present polar exploration as a type of a great problem nearing completion, the scientific investigation and mapping of the elements of geographic environment, a great problem of the present. Maps, the technical language of geography; properties and uses of map projections. Geographic elements; land forms, water forms, climate, organic life. Influence of geographic environment on man and his affairs. Major geographic conditions of each continent. Geographic control of production and of trade routes. Designed primarily to meet the needs of students in the College of Commerce.

3 hrs., first half-year. M W and alt. F, 10. Map work and recitations, five sections: I, W, 1-3; II, W, 3-5; III, Th, 1-3; IV, Th, 3-5; V, F, 1-3.

## Introduction to Economic Geography. [Economics 3A.]

The relations between geography and economics.

3 hrs., second half-year. M W F, 10. Prerequisite: Geography 1A.

## 1B. Elementary Meteorology.

Mr. **VARNEY**.

The study of weather. The weather elements and controls of weather. Temperature, pressure, and general winds of the world. Storms and the principles of forecasting. The principal types of climate.

3 hrs., second half-year; 3 units. Lectures, M W and alternate F, 8. Laboratory work in five sections: I, M, 1-3; II, Tu, 10-12; III, Tu, 1-3; IV, Th, 1-3; V, Th, 3-5.

**1c. Elementary Physiography.** Associate Professor HOLWAY.

An introduction to the study of land-forms. Crustal movements and the resulting initial land-forms. Volcanoes and lava flows. Erosional forces and the processes of degradation. Classification of land-forms. The evolution of topography in a geographic cycle under humid, arid, or glacial conditions. Not open to students who have taken course 1A prior to 1916.

3 hrs., first half-year. M W and alternate F, 8. Laboratory, four sections: I, M, 1-3; II, M, 3-5; III, Tu, 1-3; IV, Tu, 3-5.

**UPPER DIVISION COURSES**

**MAJOR COURSES**

**102. Field Physiography.** Associate Professor HOLWAY.

The topography in the vicinity of San Francisco Bay. The observation and interpretation of topographic forms.

3 units, first half-year; eight field days. Agreed Saturdays and one trip, Th to S, inclusive. Lectures, Tu Th, 2. Prerequisite: elementary physiography or geology. Traveling expenses may amount to \$15. Prescribed for the major in physical geography.

**103. Special Field Studies.** Associate Professor HOLWAY.

Additional field investigation under direct supervision of the instructor in charge, either during the academic year or as intersession work. Open to qualified students by special permission, 1 to 4 units, to be arranged.

**113. Climatology.** Mr. VARNEY.

The broader aspects of climate, and a consideration of the conditions responsible for the diversity in character of various climates. The climatic features of the western United States, and the factors governing the climates of the different regions.

3 hrs., first half-year. M W F, 9. Prerequisite: course 1B.

**\*114. Oceanography.**

The ocean and the oceanic circulation in their geographic relations. Tides and ocean currents; the use of maps and charts in navigation; trade routes and their significance.

3 hrs., first half-year. Tu Th S, 8. Prerequisite: course 1B and Astronomy 1 and 2A.

**115. Physiography of California.** Associate Professor HOLWAY.

The physical features of California, with particular reference to the causes and processes involved in the evolution of topographic forms.

3 hrs., second half-year: 3 units. M W alt. F, 9, and two hours laboratory work to be arranged. Prerequisite: elementary physiography.

---

\* Not to be given, 1917-18.

- 116A. Geography of the Americas: North America. Mr. VARNEY.  
Lectures, with reading of selected references, on the physiography, climate, and the political, economic, and commercial geography of North America, with special emphasis on the United States.  
2 hrs., first half-year. M W, 11. Prerequisite: course 1A or 1B.
- 116C. Geography of Europe. Mr. VARNEY.  
Lectures, with references to reading in descriptive publications, on the topography and climate of Europe as a continent; the political, economic, and commercial status of the constituent countries.  
2 hrs., second half-year. M W, 11. Prerequisite: course 1A or 1B.
117. Relief Modeling. Mr. VARNEY.  
Laboratory work in making relief models.  
Either half-year. The consent of the instructor must be obtained before enrollment. Normally 1 unit of credit.
118. Advanced Physiography. Associate Professor HOLWAY.  
Recent physiographic publications and the principles controlling the evolution of topography.  
3 hrs., second half-year. M W F, 10. Prerequisite: courses 102 and 115. Prescribed for seniors taking physical geography as a major subject.
119. Advanced Physiography. Associate Professor HOLWAY.  
Special assignments and the preparation of a thesis in connection with course 118. Hours and credit to be arranged.

#### GRADUATE COURSES

219. Research. Associate Professor HOLWAY.  
Students who register for field work should have at least two days free each week or, preferably, should register for summer work. This course may also include library study in collating geographical data from scientific reports of Pacific Coast work in geology, botany, irrigation, and other allied subjects.  
Not less than 2 units each half-year. W, 3-5.
220. The Teaching of Physical Geography. Associate Professor HOLWAY.  
The teaching of physical geography in secondary schools, with a study of recent text-books, laboratory manuals, and laboratory and field work. Particular attention is given to the selection from the elementary sciences of experimental and observational work that is fundamental to the appreciation of geographic processes and relations. The plan of work is based upon the customary assignment of physical geography to the first year of the high school.  
4 hrs., second half-year; 2 units. Tu Th, 3-5.



The opportunity for research work in the physical geography of California is almost unlimited. No state in the Union has a greater variety of topographical forms and as yet practically nothing but the most general study of these forms has been made. Within a short distance of the University the coast line topography is most striking and many special problems in connection with ocean terraces and sea-cliff erosion will yield valuable results. Peculiarities of drainage, fault zone topography, and remnants of former geographic cycles are almost at our doors. Within the limits of the state, problems varying from the study of living glaciers to the erosion conditions of the most arid deserts are available for investigation by qualified students. The meteorology and climatology of the state also offer abundant work for original observations, and the extensive data collected by the Weather Bureau may be used for study in this field.

In addition to the field work suggested above, there is need for extensive research in the University Library in order that geographical data scattered throughout the various scientific reports on the geology, botany, water supply, etc., of the coast may be gathered and made available in connection with direct geographic surveys.

Opportunities are by no means confined to physical geography, for problems of equal interest in commercial geography are multiplying with the rapid growth of the coast cities and with the transportation changes under modern conditions.

**GEOLOGY AND MINERALOGY**

ANDREW C. LAWSON, Ph.D., Professor of Mineralogy and Geology, and Dean of the College of Mining.

JOHN C. MERRIAM, Ph.D., Professor of Palaeontology and Historical Geology.

GEORGE D. LOUDERBACK, Ph.D., Professor of Geology.

ARTHUR S. EAKLE, Ph.D., Associate Professor of Mineralogy.

ELMER F. DAVIS, Ph.D., Instructor in Mineralogy and Geology.

*Honor-students in the Upper Division.*—The programmes of honor-students, must be approved by the department not later than the beginning of the senior year. All such programmes must include Geology 102A–102B and Geology 112, or Mineralogy 106A–106B. Honors will be awarded on the basis of excellence in the major.

---

**GEOLOGY**

There are no laboratory deposits in this department.

**LOWER DIVISION COURSES**

1A. General Geology: Dynamical and Structural. Professor LAWSON.  
Lectures.

3 hrs., first half-year. M W F, 9. Prerequisite: elementary chemistry and physics.

NOTE.—Students who intend to make geology a major study in the later years of their course are advised to take this course as early as possible.

1B. General Geology: Historical. Professor MERRIAM.  
Lectures.

2 hrs., second half-year. Tu Th, 10. Prerequisite: course 1A or Palaeontology 1.

**UPPER DIVISION COURSES**

102A–102B. Field Geology. Professor LOUDERBACK.

An inquiry by the student into the geological conditions which obtain in the region around the Bay of San Francisco, with occasional more extended excursions to points of special interest; training in methods of field observation and in interpretation of results.

Year course; 2 units each half-year; at least fifteen field days during the year. Credit in this course is given only to students who take the year's work, but supplementary credit may be given at the rate of one unit for eight days additional field work. Concurrently with the field work the class meets for lectures, exercises in geological mapping, discussion of methods, interpretation of observations and reading of geological maps. Prerequisite: Geology 1A and Mineralogy 1A. Students taking this course may be called upon to make excursions entailing an outlay for traveling expenses of \$25.

Saturdays.

102C. Economic Geology. Metalliferous Deposits. Professor LAWSON.

Lectures.

3 hrs., second half-year. M W F, 10. Prerequisite: course 1A and Mineralogy 1A, 1B.

102D. Economic Geology. Non-metalliferous Deposits.

Professor LAWSON.

2 hrs., first half-year. Tu Th, 9. Prerequisite: course 1A and Mineralogy 1A, 1B.

103AB. Introduction to Petrology.

Professor LOUDERBACK.

(A) The general characteristics, origin, mode of occurrence, and nomenclature of rocks and description of the more common types.

(B) Laboratory practice in the determination of textures, mineral components, and systematic position of rocks by direct observation of hand specimens.

5 hrs., first half-year; 3 units. Lectures, M W, 10; laboratory, two sections: I, W, 1-4; II, Th, 1-4. Prerequisite: Mineralogy 1A and 2A, 2B.

104A. Petrographical Laboratory.

Dr. DAVIS.

The optical properties of crystals and methods of investigation by means of the polarizing microscope. Laboratory and lectures.

7 hrs., first half-year; 3 units. Tu, 11; Th F, 1-4. Prerequisite: Mineralogy 2A, 2B.

104B. Petrographical Laboratory.

Professor LOUDERBACK.

Study of rocks with the aid of the microscope. A general introduction to practical petrology. Laboratory and lectures.

6 hrs., second half-year; 2 units. Th F, 1-4. Prerequisite: courses 103AB and 104A.

## 107. Physical Geology of North America.

Professor LAWSON.

Lectures.

2 hrs., second half-year. Tu Th, 4. Prerequisite: course 1A and Mineralogy 1A, 1B.

## 106. Practical Work in Palaeontological Geology.

Professor MERRIAM and Dr. CLARK.

Given in connection with course 1B. Laboratory work and excursions. For the purpose of studying a representative series of the geological horizons and of the fossils of the Coast Ranges in the field, seven excursions to points of interest near Berkeley are made on convenient Saturdays during the term.

4 hrs., second half-year; 2 units (1 unit laboratory; 1 unit excursion). Open to students who have completed or are taking course 1B.

## 112. Undergraduate Thesis Course.

The investigation of a problem individually chosen, with a formal report on the results. An introduction to independent research. If the subject chosen is properly approved, the completion of this course fulfills the thesis requirement for the degree of B.S. in the College of Mining. Admission to this course, hours, and subject matter must be individually arranged with the instructor under whom the student chooses to do the work.

Year course; 2 units each half-year. Credit in this course is given only to students who take the year's work.

## 114. Earthquakes; an Introduction to Seismology.

Dr. DAVIS.

The phenomena of earthquakes in relation to physical and geological principles involved in their causation and in the methods of their investigation. Lectures.

2 hrs., first half-year. M W, 11. Prerequisite: elementary physics and course 1A or its equivalent.

## 115. Instrumental Seismology.

Dr. DAVIS.

Instrumental methods of investigating earthquakes. The care and operation of seismographs with practice in the routine work of a seismographic station. The principal types of instruments employed for earthquake registration.

2 units; hours to be arranged. Prerequisite: course 114.

## 116. Tectonic Geology.

Dr. DAVIS.

The phenomena of folding and faulting. Graphic solution of fault problems.

2 hrs., second half-year. Tu Th, 8. Prerequisite: a working knowledge of descriptive geometry and courses 1A and 102A-102B.

GRADUATE COURSES

210. Inorganic Geology.

Professor LAWSON.

Discussions of special topics and advanced problems. Critical reviews of current literature. Prosecution of original geological research and publication of results.

209. Geology of California.

Professor LOUDERBACK.

(A) From the earliest times to the opening of the Tertiary.

\*(B) From the post-Jurassic revolution to the present time.

Lectures outlining the geological history of sedimentation, volcanic activity, the major earth movements, and geographical changes in California and bordering territory. Reviews of the literature, discussions of evidence, and field methods. Map studies and preparation of reports.

2 hrs., second half-year. M W, 11 (hours may be changed to suit class). Open to graduates and seniors who have completed course 1A and either course 1B or 107. A course dealing practically with rocks or rock formations, such as 102A-102B or 103AB, is a very desirable preliminary.

214A-214B. Advanced Laboratory and Field Work.

Professor LOUDERBACK.

One or more of the following lines may be pursued: (a) Special methods—isolation of rock constituents, study of minerals in grains, special optical and other physical methods, chemical and microchemical testing. (b) Systematic study of a wide range of rock types with references to literature, and critical discussions. (c) Special study of rocks of selected provinces with their geographical and petrological relations. (d) Applications of petrographical methods of study of vein and ore minerals, opaque minerals, alteration products, metasomatism, etc. (e) Research. Descriptive, genetic and experimental problems. Combined field and laboratory studies. (f) Seminar in petrographic geology. The general topic for 1913-14 was the petrology of igneous rocks; for 1914-15, the natural history of igneous rocks; for 1916-17, contact metamorphism.

Throughout the year. Credit value to be fixed in each case.

---

\* Not to be given, 1917-18.

**MINERALOGY****LOWER DIVISION COURSES**

- 1A. Determinative Mineralogy. Associate Professor EAKLE.  
Practice in determination of minerals by their physical properties.  
6 hrs., first half-year; 2 units. Sec. I, M F, 1-4; Sec. II, Tu Th, 9-12.  
Prerequisite: matriculation chemistry. Deposit, \$2.50.
- 1B. Determinative Mineralogy. Associate Professor EAKLE.  
Practice in the determination of minerals by use of the blowpipe and chemical reagents.  
6 hrs., second half-year; 2 units. Sec. I, M W, 1-4; Sec. II, Tu Th, 9-12. Prerequisite: matriculation chemistry. Deposit, \$2.50.
- 2A. Crystallography. Associate Professor EAKLE.  
Lectures on the morphology of crystals.  
2 hrs., second half-year. M W, 9.
- 2B. Crystallographical Laboratory. Associate Professor EAKLE.  
Practice in the determination of the forms of crystals and in the methods of crystal projections. May be taken only in conjunction with course 2A and is required of all students taking that course.  
2 hrs., second half-year; 1 unit. Sec. I, F, 1-3; Sec. II, Th, 1-3.

**UPPER DIVISION COURSES**

- 102C. Physical Mineralogy. Associate Professor EAKLE.  
Lectures on the physical properties of crystals.  
1 hr., first half-year. F, 9. Prerequisite: courses 1A, 1B, 2A, 2B.
103. Descriptive Mineralogy. Associate Professor EAKLE.  
The classification, properties, modes of occurrence, and uses of minerals.  
Lectures and laboratory practice for the study and discussion of minerals.  
2 hrs., second half-year. Lectures, M W, 11; laboratory hours to be arranged. Prerequisite: courses 1A, 1B, 2A, 2B.
- \*104. Gems and Precious Stones. Associate Professor EAKLE.  
Lectures on the kinds and properties of gem minerals, their occurrences and history. Courses 104 and 105 are given alternately.  
2 hrs., first half-year. M W, 11.

\* Not to be given, 1917-18.

**105. Paragenesis of Minerals.**

Associate Professor EAKLE.

Lectures on mineral formation, associations, and synthetic production. Courses 104 and 105 are given alternately.

2 hrs., first half-year. M W, 11.

**106A-106B. Undergraduate Thesis Course.**

The investigation of a problem individually chosen, with a formal report on the results. An introduction to independent research. If the subject chosen is properly approved, the completion of this course fulfills the thesis requirement for the degree of B.S. in the College of Mining. Hours, subject matter and admission to the course must be arranged individually with the instructor under whom the student chooses to do his work. Required of undergraduates electing a major in mineralogy.

Year course; 2 units each half-year.

**107. Mineralogical Laboratory.**

Associate Professor EAKLE.

One or more of the following lines of study may be pursued: (a) Systematic study of selected suites of minerals. (b) Practice in measuring and drawing crystals. (c) Practice in the quantitative analyses of minerals. Admission to the course by individual arrangement. Credit to be based on the character of the work done. Prerequisite: course 103.

**GRADUATE COURSES**

In physical and chemical mineralogy, little has been done with the minerals of California, and the University collections contain an abundance of material suitable for work in these fields.

To the student who wishes to devote his attention to the genesis of minerals, their associations and their occurrences, this state offers exceptional advantages. The mineralogy of California is very incompletely known and few mineral deposits have been described. There are numerous contact zones, pegmatitic dikes, veins, and dry lake deposits, all possessing a varied assortment of minerals, which afford attractive problems for investigation.

**207. Advanced Crystallography.**

Associate Professor EAKLE.

This course includes practical work in the measurement of crystals, the calculation of forms and the various methods of graphical representation.

**208. Advanced Mineralogy.**

Associate Professor EAKLE.

In this course the student is given the opportunity to obtain a wider and more thorough knowledge of minerals than is possible in the undergraduate courses. Qualified undergraduates may be admitted to the course. Subjects for theses may be chosen in either of the courses 207 or 208.

**GERMAN**

HUGO K. SCHILLING, Ph.D., Professor of the German Language and Literature.

ALBIN PUTZKER, M.A., Professor of German Literature, Emeritus.

J. HENRY SENGER, Ph.D., Professor of German, Emeritus.

HERMANN J. WEBER, Ph.D., Associate Professor of German.

LUDWIG J. DEMETER, M.A., Assistant Professor of German.

CLARENCE PASCHALL, M.A., Associate Professor of German.

CLAIR HADYN BELL, M.L., Instructor in German.

FRANZ SCHNEIDER, Ph.D., Instructor in German.

LAWRENCE M. PRICE, Ph.D., Instructor in German.

KURT HELLER, Ph.D., Instructor in German.

C. F. HAMFF, M.A., Instructor in German.

ALICE P. TABOR, Ph.D., Instructor in German.

ALFRED H. SCHMIDT, M.A., Assistant in German.

HENRY S. KING, A.B., Teaching Fellow in German.

Students who wish to make a special study of German literature are advised to acquire a reading knowledge of French and a general knowledge of German history, of the History of Philosophy (Philosophy 103A-103B), and of the Study of Poetry (English 3A-3B). In the philological courses some knowledge of Greek is highly desirable.

*Honor-students in the Upper Division.*—Upper division students who have completed with high standing courses AB, CD, EF, or their equivalent, and who have received the junior certificate with honorable mention, or who have the recommendation of the department, may be admitted, on application to the secretary of the department, to candidacy for honors. Such candidates will be required to complete with high standing an approved programme of courses including, normally, 24 units of upper division work in German. The department does not prescribe any definite programme, but it will, as a rule, insist upon a good practical command of the language, and a general knowledge of German literature. To this end, course 118A-118B will constitute a part of each programme, and likewise, unless these courses shall have been taken already in the lower division, courses 106A-106B and 106C-106D. In the case of candidates who are already well advanced in German and whose plan of study makes it desirable for them to take certain courses in allied departments, permission may be given to count such courses in partial satisfaction of the 24 units required for the major.

It is very important that students in the lower division who have had German in the high school and who are looking forward to specializing in the language and to possible candidacy for honors shall not discontinue the study for a time, intending to resume it later. This always involves a serious loss which it is difficult to make good.



## LOWER DIVISION COURSES

## AB. Elementary German.

Associate Professor PASCHALL (in charge), Mr. BELL, Dr. PRICE,  
Mr. HAMFF, Dr. TABOR, Mr. SCHMIDT, and Mr. —.

5 hrs., either half-year. First half-year: M Tu W Th F, 8, 9, 10, 1;  
second half-year: M Tu W Th F, 8, 9, 10. The course corresponds  
to matriculation subject 15b<sup>3</sup>.

## CD. Elementary German (continuation of AB).

Associate Professor PASCHALL (in charge), Mr. BELL, Dr. SCHNEI-  
DER, Dr. PRICE, Mr. HAMFF, Dr. TABOR, Mr. SCHMIDT, and Mr.  
KING.

5 hrs., either half-year. M Tu W Th F, 8, 9, 10, 1. The course corre-  
sponds to matriculation subject 15b<sup>3</sup>.

## E-F. Intermediate German.

Associate Professor WEBER (in charge), Dr. PRICE, Mr. HAMFF,  
Dr. TABOR, and Mr. SCHMIDT.

Selections from prose and poetry, ordinarily including one of Schiller's  
dramas; grammar and composition. The course is conducted mainly  
in German. It corresponds to matriculation subject 15b<sup>4</sup>.

3 hrs., throughout the year. First half-year: M W F, 8, 9, 1, 2; second  
half-year, M W F, 8, 9, 1. Prerequisite: course CD or credit in  
matriculation subject 15b<sup>3</sup>.

## EF. Intermediate German (continuation of CD of first half-year).

Mr. BELL, Dr. SCHNEIDER, Dr. HELLER, Mr. HAMFF, and Mr.  
SCHMIDT.

5 hrs., second half-year. M Tu W Th F, 8, 9, 10. Identical, in scope  
and subject matter, with course E-F.

## 3A-3B. Introduction to Technical Reading. Dr. TABOR and Mr. KING.

Subjects in history, political science, economics, and the natural sciences.

If the enrollment warrants it, there will be separate sections for  
students in the College of Chemistry and for pre-medical students.

3 hrs., throughout the year. M W F, 8, 1. Prerequisite: course CD  
or credit in matriculation subject 15b<sup>4</sup>.

Course 3A-3B provides special training in the reading of more or less  
technical texts. The regular courses leading to the upper division  
courses in German are E-F and EF. Students who have had course  
3A-3B may, however, take course 106A-106B or course 107A-107B;  
and they may be admitted to courses 104A-104B and 105A-105B, if  
they take at the same time course 106A-106B, or satisfy the depart-  
ment that they are not deficient in grammar and composition.

## FREE ELECTIVE COURSE

## 9A-9B. Outlines of the History of German Literature.

Associate Professor WEBER.

Lectures (in English) and collateral reading of representative works (in English translations).

1 hr., throughout the year. Tu, 11.

This course is open to students in all departments of the University, as a free elective, and does not require a knowledge of German. It is not intended for those who pursue the study of German beyond course 105A-105B (see course 118A-118B).

## UPPER DIVISION COURSES

The courses in this group (except courses 107A-107B, 121B, 121D, and 121F) are conducted in German.

## 104A-104B. Introduction to Recent Literature.

Dr. SCHNEIDER and Dr. PRICE.

Selected works of Hauptmann, Sudermann, Wildenbruch, and Fulda.

3 hrs., throughout the year. M W F, 10, 1. Prerequisite: course E-F or EF, or credit for matriculation subject 15b'; or, conditionally, course 3A-3B.

## 105A-105B. Classics of the Eighteenth Century.

Associate Professor PASCHALL and Mr. BELL.

Selected works of Lessing, Goethe, and Schiller.

3 hrs., throughout the year. M W F, 10, 1. Prerequisite: same as for 104A-104B.

## 107A-107B. Historical Prose.

Dr. TABOR.

Selections from the works of German historians, chosen with the view of giving a general survey of German history and government.

2 hrs., throughout the year. Tu Th, 9. Prerequisite: same as for course 104A-104B (but see also note to course 3A-3B).

## 106A-106B. Grammar, Composition, and Conversation. First course.

Mr. BELL, Dr. PRICE, Dr. HELLER, Mr. HAMFF, Dr. TABOR and Mr. SCHMIDT.

2 hrs., throughout the year. Tu Th, 11, 1. Prerequisite: same as for course 104A-104B.

## 106C-106D. Grammar, Composition, and Conversation. Second course.

Assistant Professor DEMETER, Dr. SCHNEIDER, and Dr. HELLER.

2 hrs., throughout the year. Three sections: Tu Th, 10, 11, 3. Prerequisite: first or second grade of scholarship in course 106A-106B.

## \*106E-106F. Exercises in Conversation and Writing.

Assistant Professor DEMETER.

2 hrs., throughout the year. Tu Th, 11.

This course is supplementary to 106C-106D, and is ordinarily to be taken in connection with that course. Taken alone it does not lead up to 206A-206B. Prerequisite: same as for course 106C-106D.

---

\* Not to be given, 1917-18.

- 110A-110B. The German Ballad. Professor SCHILLING.  
German ballad poetry from Goethe and Schiller to the present day.  
1 hr., throughout the year. Tu, 11. Prerequisite: same as for course 104A-104B.
- 111A-111B. Novelists of the Nineteenth Century. Associate Professor WEBER.  
Selected novels of Hauff, Freytag, Ludwig, Keller, Meyer, Sudermann, and others.  
3 hrs., throughout the year. M W F, 10. Prerequisite: course 104A-104B, 105A-105B, 106A-106B, or 107A-107B.
- \*113A-113B. The German Folk-Song. Professor SCHILLING.  
A study of the history of German folk-poetry from the Middle Ages to the present. Lectures and reading.  
1 hr., throughout the year. Th, 3. Prerequisite: course 104A-104B, 105A-105B, 106A-106B, or 107A-107B.
- 118A-118B. General History of German Literature. Professor SCHILLING.  
First half-year, the Middle Ages; second half-year, from the Reformation to the death of Goethe. Lectures and discussions; collateral reading. Not open to lower division students except by special permission of the instructor.  
3 hrs., throughout the year. M W F, 2. Prerequisite: course 104A-104B, 105A-105B, or 107A-107B.
- 119A. Middle High German. Associate Professor PASCHALL.  
Outlines of grammar. Selections from the Nibelungenlied, the Kudrun, and the epics of chivalry. Translation into modern German.  
3 hrs., first half-year. M W F, 9. Prerequisite: course 104A-104B, 105A-105B, 106A-106B, or 107A-107B. This course should be taken together with or after (but not before) 118A-118B.
- 121B. Methods of Teaching German. Professor SCHILLING.  
1 hr., second half-year. W, 3.
- 121D. German Phonology and Orthography. Associate Professor PASCHALL.  
1 hr., second half-year. M, 3.
- 121F. Problems in the Teaching of Grammar. Associate Professor PASCHALL.  
1 hr., second half-year. F, 3.  
Courses 121B, D, and F are primarily intended for candidates for the teacher's recommendation and will be accepted in partial satisfaction of the requirement in education for that recommendation.
- 150A-150B. Special Study.  
Topics selected with the approval of the department and studied privately under the direction of one of the instructors. This course is intended primarily for graduate students in absence.

---

\* Not to be given, 1917-18.

## GRADUATE COURSES

Prerequisite: for the literary courses, course 118A-118B; for those in philology, ordinarily courses 119A and 106C-106D.

206A-206B. Composition. Third course. Assistant Professor DEMETER.

Themes and essays. Practice in the correcting of written exercises. One conference a week with each student, at an hour to be appointed by the instructor. 2 units each half-year. Prerequisite: first or second grade of scholarship in course 106C-106D. This course cannot be credited in satisfaction of the requirement of graduate work for the teacher's recommendation or the master's degree unless the student has already completed an equal amount of approved graduate work.

208A-208B. Spanish Influences upon German Literature in the Seventeenth and Eighteenth Centuries. Dr. SCHNEIDER.

1 hr., throughout the year.

210A-210B. English Influences upon German Literature. Dr. PRICE.

First half-year: the Eighteenth Century; second half-year: the Nineteenth Century, with particular reference to the Novel. Study of illustrative works. Preparation of a report on a special topic.

1 hr., throughout the year.

222A-222B. The Faust Legend and Goethe's Faust. Professor SCHILLING.

2 hrs., throughout the year. Tu Th, 2.

\*223A-223B. The Poems of Goethe. Professor SCHILLING.

1 hr., throughout the year. Th, 2.

225A-225B. German Literature in the Nineteenth Century.

Associate Professor WEBER.

Prose fiction, epic and lyric poetry.

3 hrs., throughout the year. M W Th, 11.

\*226A-226B. German Literature in the Nineteenth Century.

Associate Professor WEBER.

The drama up to the rise of the naturalistic movement (about 1880).

3 hrs., throughout the year. M W Th, 11.

\*230A-230B. The German Drama of the Present Day.

Professor SCHILLING.

The drama and the stage from the beginning of the naturalistic movement to the present day.

2 hrs., throughout the year. Tu Th, 2.

\* Not to be given, 1917-18.

## 227B. Literature and Art in the Middle Ages.

Assistant Professor DEMETER.

The relation of literature, especially of mysticism and the religious drama, to the fine arts in Germany and the Netherlands.

2 hrs., second half-year. Tu Th, 3.

## \*228B. German Art in the Nineteenth Century in its Relation to the Leading Literary Movements.

Assistant Professor DEMETER.

2 hrs., second half-year. Tu Th, 3.

## 242A-242B. The Lyrics and Prose of Heine and of Mörike. Pro-seminar.

Associate Professor WEBER.

2 hrs., throughout the year. Th, 4-6.

## \*243A-243B. German Literature in the Sixteenth and Seventeenth Centuries.

Associate Professor WEBER.

2 hrs., throughout the year.

## \*245A-245B. The "Storm and Stress" in the Eighteenth Century. Pro-seminar.

Assistant Professor DEMETER.

1 hr., throughout the year.

## 246A-246B. The Works of Hebbel. Pro-seminar.

Assistant Professor DEMETER.

2 hrs., throughout the year.

## \*247B. German Poetry during the Decadence of Chivalry.

Professor SCHILLING.

3 hrs., second half-year.

## Introduction to Germanic Philology. [See Germanic Philology 201A.]

Professor SCHILLING.

## Gothic: Grammar and Reading. [See Germanic Philology 202B.]

## \*235B. Old Saxon. Outlines of Germanic Metrics. Professor SCHILLING.

3 hrs., second half-year.

## 237B. Old High German.

Professor SCHILLING.

3 hrs., second half-year.

## 240A. Historical Grammar of the German Language.

Associate Professor PASCHALL.

2 hrs., first half-year.

## \*Germanic Antiquities. [See Germanic Philology 205.]

Professor SCHILLING.

## 250A-250B. Germanic Seminar.

Professor SCHILLING.

Original investigation in linguistic and literary fields chosen with regard to the needs and wishes of each student. Tu, 4-6.

\* Not to be given, 1917-18.

**GERMANIC PHILOLOGY**

For the courses in English and German Philology see the department announcements. The courses in Germanic Philology are open to competent undergraduates, at the discretion of the instructor.

**GRADUATE COURSES**

- 201A. Introduction to Germanic Philology. Professor SCHILLING.  
The Indo-Germanic race, its history, and the phonology of its principal languages. The Germanic sound-shift and the phonological development of the Germanic dialects.  
2 hrs., first half-year.
- 202B. Gothic. Associate Professor PASCHALL.  
Grammar, with special reference to the other Germanic dialects. Reading.  
3 hrs., second half-year.
- \*203A-203B. Old Norse. Associate Professor PASCHALL.  
Outlines of the grammar; reading.  
2 hrs., throughout the year.
- \*205. Germanic Antiquities. Professor SCHILLING.

---

\* Not to be given, 1917-18.

## GREEK

ISAAC FLAGG, Ph.D., Professor of Greek, Emeritus.

EDWARD B. CLAPP, Ph.D., LL.D., Professor Emeritus, of the Greek Language and Literature.

GEORGE W. BUNNELL, M.A., Professor of Greek, Emeritus.

<sup>1</sup>FRANCIS G. ALLINSON, Ph.D., Sather Professor of Classical Literature for the first half-year.

<sup>2</sup>WILLIAM K. PRENTICE, Ph.D., Sather Professor of Classical Literature for the second half-year.

JAMES T. ALLEN, Ph.D., Associate Professor of Greek.

IVAN M. LINFORTH, Ph.D., Associate Professor of Greek.

OLIVER M. WASHBURN, A.B., Assistant Professor of Classical Archaeology.

NOTE.—The courses to be given by Professors Allinson and Prentice will be announced later.

Greek studies properly include not only the language of the Greeks, but all the manifestations of their genius in literature, philosophy, art, history, politics and religion. As far as possible the department of Greek, assisted by members of other departments, aims to provide instruction in all these subjects.

The courses which are offered fall into two classes: (a) those in which a knowledge of the Greek language is required, including the courses for beginners in Greek; (b) those for which a knowledge of Greek is not necessary. But it cannot be too strongly emphasized that a fair knowledge of the language is essential for anything more than a superficial study of the works of the Greeks.

*Honor-students in the Upper Division.*—A student in the upper division may be registered as a candidate for honors in Greek under the following conditions: (1) he must have finished courses AB, C, D, or their equivalent, and (2) either he must have received honorable mention with the junior certificate, or he must have the recommendation of the department. His work as a candidate will be arranged by himself in consultation with the department in accordance with his special interests and abilities, whether they be literary, historical, philosophical, linguistic, or other. Appropriate courses in other departments will be freely accepted by the Greek department. Course 199 is especially devised for candidates and may consist of any kind of work appropriate for the individual candidate, whether carried on by himself privately, or by conference with instructors, or otherwise. Members of the department hold themselves in readiness to guide and assist candidates in any way whatever.

Honors at graduation will be awarded to those candidates who have shown marked excellence in their work. Normally they will be expected to have taken courses E-F, 3A-3B, 1, 2, 101, 102, and at least two other major courses; but this series of courses is not definitely prescribed.

<sup>1</sup> In residence first half-year only; <sup>2</sup>, second half-year only.

# I. COURSES NOT REQUIRING A KNOWLEDGE OF THE GREEK LANGUAGE

## LOWER DIVISION COURSES

46. Greek Life from the Monuments. Assistant Professor WASHBURN.  
 Illustrated lectures on the life of the Greeks.  
 1 hr., first half-year. Tu, 7 p.m.
49. Centers of Greek Life. Assistant Professor WASHBURN.  
 Illustrated lectures on Troy, Pergamon, Priene, Miletus, Delphi, Olympia, Herculaneum, etc.  
 1 hr., second half-year. Tu, 7 p.m.
- History of Ancient and Classic Architecture. [Architecture 5A-5B.]  
 Professor HOWARD.

## UPPER DIVISION COURSES

- \*140. Greek Sculpture. Assistant Professor WASHBURN.  
 An historic study of Greek sculpture to the close of the Hellenistic period.  
 2 hrs., second half-year.
- 151A. Greek Religious Institutions. Associate Professor LINFORTH.  
 2 hrs., first half-year. Tu Th, 11.
- 151B. Greek Religious and Moral Ideas. Associate Professor LINFORTH.  
 A study of Greek religious and moral ideas from the beginning to 400 B.C.  
 2 hrs., second half-year. Tu Th, 11.
153. Greece and the Greeks. Associate Professor ALLEN.  
 Studies in Greek life and thought from Homer to the Christian era.  
 Lectures, reports, discussions.  
 2 hrs., first half-year. Tu Th, 2.
155. Greek Drama. Associate Professor ALLEN.  
 The development, significance and influence of the Greek drama; Aeschylus, Sophocles, Euripides, Aristophanes, Menander. Lectures, readings, reports and discussions.  
 2 hrs., second half-year. Tu Th, 2.
- Problems of Literary Criticism—the Beginnings of Poetry. [English 109C.]  
 Associate Professor KURTZ.
- Ancient History to the Death of Alexander. [History 111A.]  
 Assistant Professor SCHOLZ.
- Plato. [Philosophy 116.]  
 Assistant Professor POPE.
- Theory of the State. [Political Science 101.]  
 Professor ELLIOTT.

\* Not to be given, 1917-18.



## II. COURSES REQUIRING A KNOWLEDGE OF THE GREEK LANGUAGE

### LOWER DIVISION COURSES

Students who have credit for matriculation subjects 8 and 9 should take courses 1 and 2 in their freshman year. Students who have credit for matriculation subject 8 only should take courses C and D or CD in their freshman year, and courses 1 and 2 in their sophomore year. Students who have no matriculation credit in Greek should take course A-B in their freshman year and courses C and D in their sophomore year, or courses AB, CD in their freshman year.

#### A-B. Greek for Beginners.

— — — — —  
An introduction to the Greek language based upon graded selections from the works of Menander, Euclid, Aristophanes, Plato, Herodotus, and the New Testament. The method of presentation emphasizes the living phrase, and has as its chief object the acquiring of reading power. Mastery of essential forms, memorizing of quotations; practice in reading at sight.

3 hrs., throughout the year. M W F, 1.

#### AB. Greek for Beginners. Associate Professor ALLEN and — — — — —.

A double course, covering the work of courses A and B in one half-year.

5 hrs., either half-year. First half-year: M Tu W Th F, 8; second half-year: M Tu W Th F, 9.

#### C. Attic Prose.

Associate Professor ALLEN.

Reading of Attic prose; study of inflectional forms, syntax, vocabulary; exercises both in rapid reading and close analysis.

3 hrs., first half-year. M W F, 10.

#### D. Introduction to Homer.

Associate Professor LINFORTH.

Several books of the Iliad; Homeric forms and vocabulary; intelligent and expressive reading of the verse.

3 hrs., second half-year. M W F, 10.

#### CD. Attic Prose and Homer.

Associate Professor ALLEN.

A double course, covering the work of courses C and D in one half-year.

5 hrs., second half-year. M Tu W Th F, 8.

#### E-F. Prose Composition, I.

— — — — —  
Exercises in writing simple Greek sentences, with special attention to elementary matters of grammar: inflection, syntax, and arrangement of words.

1 hr., throughout the year. Tu, 1. Hour subject to change. Prerequisite: matriculation subject 8 or course A-B, or AB.

## 1. Socrates.

Lectures on the life and times of Socrates; reading of the *Apology*, *Crito*, and the close of the *Phaedo* of Plato, and scenes from the *Clouds* of Aristophanes.

3 hrs., first half-year. M W F, 9.

## 2. Greek Poetry.

Associate Professor LINFORTH.

Reading of one tragedy and selections from Homer, the lyric poets, and the dramatists. Lectures and assigned readings on the history of Greek Poetry.

3 hrs., second half-year. M W F, 9.

## 3A-3B. Prose Composition, II.

Associate Professor LINFORTH.

Exercises in writing Greek prose, with special attention to the simpler rhetorical principles; particles, balance and antithesis, participles, etc.

1 hr., throughout the year. M, 3. Hour subject to change. Prerequisite: course E-F.

## UPPER DIVISION COURSES

Courses 101 and 102 are designed to follow courses 1 and 2, and form the proper introduction to the other major courses in which a knowledge of the Greek language is required. Students who have not had courses 101 and 102 should not elect any of the other courses in the following group without consultation.

## 101. Historical Prose.

Reading of selections from Herodotus and Thucydides which exhibit the rise and fall of the Athenian Empire; training in rapid and intelligent reading of ordinary Greek prose.

3 hrs., first half-year. M W F, 2.

## 102. Introduction to Greek Drama.

Reading of two tragedies and one comedy. Lectures and readings on the technique and presentation of Greek plays.

3 hrs., second half-year. M W F, 2.

## \*110. Homer.

Associate Professor LINFORTH.

3 hrs., first half-year.

## \*120. Euripides.

Associate Professor LINFORTH.

3 hrs., second half-year.

## 121. Sophocles.

Associate Professor LINFORTH.

Reading and interpretation of the extant plays.

3 hrs., first half-year. M W and alternate F, 11.

\* Not to be given, 1917-18.

- \*122. Aeschylus. Associate Professor ALLEN.  
3 hrs., second half-year.
129. Studies in the Attic Orators. Associate Professor ALLEN.  
Pro-seminar. A study of life in Athens in the fifth and fourth centuries,  
as illustrated by the Attic orators.  
2 hrs., second half-year; 3 units. Tu Th, 2.
- \*131. Herodotus. Associate Professor LINFORTH.  
3 hrs., second half-year.
- \*137. Aristophanes. Associate Professor ALLEN.  
3 hrs., first half-year.
- 199A-199B. Special Study. Associate Professor LINFORTH.  
Each student will pursue privately some definite course of reading or  
investigation, and will report at regular intervals to the instructor.  
Open only to candidates for honors. Credit will be determined for  
each student (1-4 units).

## GRADUATE COURSES

The library, enriched by very large additions during the ten years past, contains practically everything that an advanced student is likely to need. Considerable apparatus for Palaeography and Epigraphy is provided, and the University Museum furnishes a collection of casts of the masterpieces of Greek art, as well as a few originals.

The following courses are intended for graduate students only, and one or more of them will be given each year, according to the needs of students. Many graduate students will find it profitable to take also some of the upper division courses for undergraduates.

- 255A-255B. Studies in Greek Dramatic Representation. Associate Professor ALLEN.  
A study of the literature of Greek dramatic representation, together  
with the reading of representative plays of Aeschylus, Sophocles,  
Euripides, Aristophanes, and Menander. Investigation of special  
problems.  
2 hrs., throughout the year; 4 units each half-year. Tu Th, 3.
- \*256A-256B. Studies in the Religion of Athens in the Second Half of the  
Fifth Century, B.C. Associate Professor LINFORTH.
- 257A-257B. Greek Inscriptions. Assistant Professor WASHBURN.  
Practical exercises in the reading and interpretation of inscriptions of  
philological, archaeological, and historical interest.  
2 hrs., throughout the year. Hours to be arranged.

---

\* Not to be given, 1917-18.

### HISTORY

- H. MORSE STEPHENS, M.A., Litt.D., Sather Professor of History.  
 HERBERT E. BOLTON, Ph.D., Professor of American History and Acting  
 Curator of the Bancroft Library.  
 FREDERICK J. TEGGART, A.B., Associate Professor of History.  
 EUGENE I. MCCORMAC, Ph.D., Associate Professor of American History.  
 LOUIS J. PAETOW, Ph.D., Associate Professor of Medieval History.  
 RICHARD F. SCHOLZ, Ph.D., Assistant Professor of Ancient History.  
 WILLIAM A. MORRIS, Ph.D., Assistant Professor of English History.  
 CHARLES E. CHAPMAN, Ph.D., Assistant Professor of Latin-American and  
 California History.  
 HERBERT I. PRIESTLEY, Ph.D., Assistant Professor of History and Assistant  
 Curator of the Bancroft Library.  
 KARL C. LEEBRICK, Ph.D., Instructor in History.  
 FRANCIS W. RÜBKE, B.S., Assistant in History.  
 ARTHUR P. WATTS, M.A., Assistant in History.

The attention of students is called to the unusual opportunities for historical research offered by the Bancroft collection of manuscripts and books relating to the countries bordering upon the Pacific Ocean from Alaska to Panama. The results of investigations completed in connection with the work of the department appear in the *University of California Publications in History* and in the *Publications of the Academy of Pacific Coast History*.

*Honor-students in the Upper Division.*—Honors will be conferred only upon students who have completed a 24-unit major in history with distinction. One of the following plans must be chosen.

A. The honor-student must complete course 101A-101B, Honor-course: *Historiography*, Professor Stephens, 4 units each half-year, with distinction.

B. The honor-student must choose three fields of history (such as ancient history, medieval history, modern European history, English history, history of Spain and Spanish America, American history, and the history of the West). He may read for honors in connection with any courses offered in his chosen fields. Ordinarily, he should begin work in these fields not later than the beginning of his junior year, but he will be allowed to begin as late as the beginning of his senior year. The instructors concerned will be free to make any arrangements they please with honor-students.

At the end of his senior year a candidate for honors may be required to take a special honor examination in each of his three fields. At the time when he takes such examinations he shall be excused from all final examinations in the courses which he is taking in his chosen fields.

<sup>2</sup> In residence second half-year only, 1917-18.

Not later than December 1 or April 25 preceding graduation a candidate must submit a thesis, presumably one which has grown out of a term paper in one of the courses he has taken in preparation for his honor-examination. The thesis must be typewritten, on pages  $8\frac{1}{2} \times 10$  inches, and must be in suitable form.

The three instructors in charge of the candidate's chosen fields of work shall constitute a committee of the department to read the honor-examination papers, to pass upon the merits of the thesis, and, on the basis of this evidence, shall recommend to the department that honors be granted or not granted. Thereupon the department will take final action.

For detailed information, see the Announcement of the Department of History, 1916-17.

### LOWER DIVISION COURSES

Students may satisfy any requirement of history for the junior certificate by taking Course 1A-1B. Students who elect history as their major subject in the upper division must take Course 1A-1B, and are recommended to acquire a reading knowledge of French, German, or Spanish in the lower division.

#### 1A-1B. General History.

Professor STEPHENS, Dr. LEEBRICK, and Assistants.

The growth of western civilization from earliest times to the end of the nineteenth century. An introduction to the study of history, affording a general perspective of the development of society, politics, and literature in Europe. No text-book is used, but a syllabus is provided for the contents of eighty lectures, forty to be delivered each term. The first half-year's work extends to the beginning of the thirteenth century, and the second half-year's work from the thirteenth to the nineteenth century. The class is divided into thirty sections in which recitations are conducted weekly by the assistants in history, who also hold conferences with individual students at stated hours in 131 Library. *Course 1B is not open to freshmen who have not had course 1A.*

3 hrs., throughout the year. M W F, 10.

#### 2B. Historical Geography.

Associate Professor TEGGART.

The relations of habitat and culture. The historical movement of population as influenced by geographical factors. Frontiers and the distribution of political units. Historical changes in the political map of Europe.

3 hrs., second half-year. M W F, 2.

### UPPER DIVISION COURSES

#### FREE ELECTIVE COURSE

#### 91A-91B. History of Europe in the Nineteenth Century, 1815-1914.

Professor STEPHENS.

2 hrs., throughout the year. Tu Th, 10. Prerequisite: upper division standing, or History 1, Political Science 1, or Economics 1.

## MAJOR COURSES

- 101A-101B. Honor-course: Historiography. Professor STEPHENS.  
2 hrs., throughout the year: 4 units each half-year. W, 3-5.
- †102A-102B. The Migrations of Peoples. Associate Professor TEGGART.  
The origin and significance of the movement of peoples, considered particularly as a factor in the growth of European civilization.  
2 hrs., throughout the year. M W, 11.
- 111A-111B. Ancient History. Assistant Professor SCHOLZ.  
(A) To the death of Alexander. (B) To the early seventh century.  
3 hrs., throughout the year. M W F, 8. Prerequisite: course 1A-1B and a reading knowledge of French, or German, or Italian.
- \*112A-112B. Hellenism, its Spread and Transformation. Assistant Professor SCHOLZ.  
(A) Greek civilization from its beginnings to the second century A.D.  
(B) Byzantine history, from the time of Constantine to the fall of Constantinople (1453).  
2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 111A-111B and a reading knowledge of French, or Italian, or German.
- \*113A-113B. Ancient Imperialism and the Antecedents of the Medieval Empire. Assistant Professor SCHOLZ.  
(A) To the death of Julius Caesar. (B) From the Principate of Augustus to Charlemagne.  
2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 111A-111B and a reading knowledge of French or German.
- 114A-114B. The History of Religions to the Sixth Century. Assistant Professor SCHOLZ.  
(A) To Alexander the Great. (B) To Justinian.  
2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 111A-111B and a reading knowledge of French or German.
- \*115A-115B. History of Ancient Law. Assistant Professor SCHOLZ.  
Historical background and comparative study of Babylonian, Hebrew, Greek, Hellenistic and Roman law and legal institutions. Especially designed for students of law.  
2 hrs., throughout the year, to be arranged.
- 121A-121B. Medieval History. Associate Professor PAETOW.  
A general survey of European history from about 500 to about 1500, based on Paetow, *Guide to the Study of Medieval History*, Part II.  
3 hrs., throughout the year. M W F, 9. Prerequisite: course 1A-1B and a reading knowledge of French, or German, or Italian, or Spanish.

\* Not to be given, 1917-18.

† Not to be given, first half-year.

**122A-122B. Medieval Culture.**

Associate Professor PAETOW.

From about 500 to about 1300, with special emphasis on the twelfth and thirteenth centuries, based on Paetow, *Guide to the Study of Medieval History*, Part III.

2 hrs., throughout the year. Tu Th, 9. Prerequisite: course 121A-121B and a reading knowledge of French or German.

**\*123A-123B. Medieval France.**

Associate Professor PAETOW.

From the Treaty of Verdun to Louis XI. Special emphasis is laid on the history of institutions: (A) Feudal institutions; (B) Monarchical institutions.

2 hrs., throughout the year. Tu Th, 9. Prerequisite: course 121A-121B and a reading knowledge of French.

**\*131A-131B. Renaissance and Reformation.**

3 hrs., throughout the year.

**141A-141B. Modern European History.**

Dr. LEEBRICK.

Lectures on the history of Europe from 1600 to 1890, based on Stephens, *Syllabus of a Course of Lectures on European History*.

3 hrs., throughout the year. M W F, 2. Prerequisite: course 1A-1B and a reading knowledge of French, or German, or Italian, or Spanish.

**\*142A-142B. The French Revolutionary Period in Europe.**

Professor STEPHENS.

An intensive study of the French Revolution from 1789 to 1799, and its influence on Europe.

2 hrs., throughout the year. Tu Th, 2. Prerequisite: course 141A-141B and a reading knowledge of French.

**143A-143B. The Napoleonic Period in Europe.**

Professor STEPHENS.

An intensive study of the Napoleonic Period from 1799 to 1815, and its influence on Europe.

2 hrs., throughout the year. Tu Th, 2. Prerequisite: course 141A-141B and a reading knowledge of French.

**151A-151B. History of England.**

Assistant Professor MORRIS.

Lectures on the political and constitutional history of England with The study of documents contained in Adams and Stephens, *Select Documents of English Constitutional History*.

3 hrs., throughout the year. M W F, 8. Prerequisite (for students with a major in history): course 1A-1B.

---

\* Not to be given, 1917-18.

## 152A-152B. Constitutional History of England.

Assistant Professor MORRIS.

A detailed study of the origin and growth of the English Constitution. Especially designed for students of law.

2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 151A-151B. (May be waived by the instructor.)

## \*155A-155B. History of the British Empire.

Professor STEPHENS.

(A) History of English colonies and dependencies; Colonial administration; India. (B) The West Indies, British Africa, North America, Australia and New Zealand.

2 hrs., throughout the year. Tu Th, 2. Prerequisite: course 1A-1B.

## \*161A-161B. History of Spain and Portugal.

Assistant Professor CHAPMAN.

The European background of Latin America with special emphasis on institutions.

(A) To 1516. (B) To date.

3 hrs., throughout the year. M W F, 8. Prerequisite (for students with a major in history): course 1A-1B. A reading knowledge of Spanish, Portuguese, or French is desirable.

## 162A-162B. History of Latin America. Assistant Professor CHAPMAN.

The grafting of Spanish and Portuguese civilization on the Americas, and the development of the Latin-American states, with emphasis on their relations to the United States. (A) To 1824. (B) To date.

3 hrs., throughout the year. M W F, 8. Prerequisite (for students with a major in history): course 1A-1B. A reading knowledge of Spanish, Portuguese, or French is desirable.

## 165A-165B. History of Latin-American Institutions.

Assistant Professor PRIESTLEY.

The development of social, economic, and political institutions in Latin America; comparative survey of the colonial institutions of the European settlements in America.

2 hrs., throughout the year. Tu Th, 8.

## 171A-171B. American History.

Associate Professor McCORMAC.

A general course dealing with the English colonies and the political history of the United States.

3 hrs., throughout the year. M W F, 10. Prerequisite (for students with a major in history): course 1A-1B.

## 172A-172B. American Constitutional History.

Associate Professor McCORMAC.

Colonial governments; formation of the national constitution; historical development of constitutional government in the United States.

2 hrs., throughout the year. Tu Th, 10. Prerequisite: course 171A-171B. (May be waived by the instructor.)

\*Not to be given, 1917-18.



**\*173A-173B. The Civil War and Reconstruction.**

Associate Professor MCCORMAC.

2 hrs., throughout the year. Tu Th, 10. Prerequisite (for students with a major in history): course 1A-1B.

**181A-181B. The History of the West.**

Professor BOLTON.

The settlement and development of the West, and the influence of the West upon national and international affairs at each stage of advance. The emphasis of the course is upon the Trans-Mississippi West.

3 hrs., throughout the year. M W F, 9. Prerequisite (for students with a major in history): course 1A-1B.

**182A-182B. Spain in North America.**

Professor BOLTON.

A general survey of the establishment of Spanish rule and Spanish institutions in North America, followed by a more detailed study of Spanish activities in and relative to territory now within the United States.

2 hrs., throughout the year. Tu Th, 9. Prerequisite: course 161A-161B, or 181A-181B, or 183A-183B. A reading knowledge of Spanish is desirable.

**\*183A-183B. European Expansion in North America.** Professor BOLTON.

Spanish, French, Dutch, Swedish, Russian, and English exploration and settlement in North America in their bearings upon the contest for the possession of the continent and upon the development of colonial policies.

3 hrs., throughout the year. M W F, 9. Prerequisite (for students with a major in history): course 1A-1B. A reading knowledge of French and Spanish is desirable.

**189A-189B. History of California.**

Assistant Professor CHAPMAN.

The relation of the history of California to that of New Spain, the far East, and the United States.

2 hrs., throughout the year. Tu Th, 8. Prerequisite (for students with a major in history): course 1A-1B and 161A-161B, or 162A-162B, or 171A-171B, or 181A-181B.

**\*191A-191B. Nineteenth Century History.**

3 hrs., throughout the year.

**GRADUATE COURSES**

Students desirous of pursuing graduate work in history must register, immediately upon entrance, with the secretary of the department, Professor L. J. Paetow, 30 Benjamin Ide Wheeler Hall. A member of the department is appointed to supervise the work of each graduate student. Graduates from other institutions, before admission to graduate work, will be tested as to their knowledge of both European and American history.

Students who plan to undertake research work in Spanish-American history must have a thorough knowledge of Spanish.

The department of history issues a separate announcement which contains its requirements for the degree of Doctor of Philosophy.

\*Not to be given, 1917-18.

- 201A-201B. The Critical Study of Historiography. Professor STEPHENS.  
2 hrs., throughout the year. W, 3-5.
- 202A-202B. Historical Method. Associate Professor PAETOW.  
The work in the course is based primarily on Langlois and Seignobos, *Introduction to the Study of History*. The second half-year is devoted largely to practical exercises.  
2 hrs., throughout the year. M, 2-4.
- †203A-203B. The Theory of History. Associate Professor TEGGART.  
An examination of modern ideas concerning the scope of history and the conditions of historical knowledge.  
2 hrs., throughout the year. W, 3-5.
- †205A-205B. Historical Bibliography. Associate Professor TEGGART.  
Instruction in the methods of bibliography, followed by a detailed presentation of bibliographical information necessary for historical research.  
2 hrs., throughout the year. F, 3-5.
- \*206A-206B. Historical Cartography. Associate Professor TEGGART.  
2 hrs., throughout the year.
- 211A-211B. Ancient History. Assistant Professor SCHOLZ.  
For 1917-18 the subject will be: Epigraphic and archaeological sources for the Principate of Augustus.  
2 hrs., throughout the year. Th, 7:30-9:30 p.m.
- 212A-212B. Introduction to Latin Epigraphy. Assistant Professor SCHOLZ.  
(A) Lectures and practical exercises. (B) An intensive study and interpretation of selected inscriptions of the early Principate, with reference to the works of Tacitus, Suetonius, and Dio Cassius.  
2 hrs., throughout the year, to be arranged.
- 221A-221B. Medieval History. Associate Professor PAETOW.  
For 1917-18 the subject will be: The University of Paris in the thirteenth century.  
2 hrs., throughout the year. Tu, 3-5.
- \*222A-222B. Introduction to Latin Palaeography and Diplomatics. Associate Professor PAETOW.  
The practical exercises in this course will be done mainly with facsimiles of manuscripts of the twelfth and thirteenth centuries.  
2 hrs., throughout the year.
- 241A-241B. Modern European History. Professor STEPHENS.  
For 1917-18 the subject will be: Diplomatic relations of the states of Europe from 1784 to 1792.  
2 hrs., throughout the year. Tu, 7:30-9:30 p.m.

---

\*Not to be given, 1917-18. † Not to be given, first half-year, 1917-18.

- \*242A-242B. The French Revolutionary Period in Europe.** Professor STEPHENS.  
2 hrs., throughout the year.
- 243A-243B. The Napoleonic Period in Europe.** Professor STEPHENS.  
The same lectures as in course 143A-143B, with additional work for graduate credit.  
2 hrs., throughout the year. Tu Th, 2.
- 251A-251B. History of English Law.** Assistant Professor MORRIS.  
For 1917-18 the subject will be the judicial and administrative system of the twelfth and thirteenth centuries.  
2 hrs., throughout the year. Th, 3-5.
- \*255A-255B. History of the British Empire.** Professor STEPHENS.  
2 hrs., throughout the year.
- \*261A-261B. History of Spain and Portugal.** Assistant Professor CHAPMAN.  
2 hrs., throughout the year.
- \*262A-262B. History of Latin America.** Assistant Professor CHAPMAN.  
2 hrs., throughout the year.
- 265A-265B. History of Latin-American Institutions.** Assistant Professor PRIESTLEY.  
For 1917-18 the subject will be: The Bourbon colonial policies, with special reference to their development in New Spain.  
2 hrs., throughout the year. M, 7:30-9:30 p.m.
- 271A-271B. American History.** Associate Professor MCCORMAC.  
For 1917-18 the subject will be: The Jackson period.  
2 hrs., throughout the year. Tu, 1-3.
- 281A-281B. The Southwest under Spain.** Professor BOLTON.  
2 hrs., throughout the year. Th, 3-5.
- 282A-282B. The Trans-Mississippi West since 1821.** Professor BOLTON.  
2 hrs., throughout the year. Th, 7:30-9:30 p.m.
- 289A-289B. California History.** Assistant Professor CHAPMAN.  
For 1917-18 the subject will be: California in the nineteenth century.  
2 hrs., throughout the year. Tu, 7:30-9:30 p.m.

## TEACHERS' COURSE

- 301. The Teaching of History.** Assistant Professor MORRIS.  
A discussion of the teaching of history in secondary schools, with special reports and criticisms of text-books.  
3 hrs., either half-year. M W F, 11.

---

\*Not to be given, 1917-18.

### HOME ECONOMICS

MARY F. PATTERSON, Assistant Professor of Household Art.  
AGNES F. MORGAN, Ph.D., Assistant Professor of Household Science.  
JOSEPHINE E. DAVIS, M.A., Assistant Professor of Household Science.  
JOHN W. GILMORE, M.S., Professor of Agronomy.  
ETHEL E. TAYLOR, B.S., Instructor in Textiles.  
GERTRUDE PERCIVAL, A.B., Assistant in Household Art.  
EDITH L. BROWN, M.S., Laboratory Assistant in Household Science.

Two distinct courses of study are offered under the general head of Home Economics, one in Household Art and the other in Household Science. These two courses may be combined by the individual student with the consent of the department. Such a combination is often impracticable, however, on account of the prerequisite drawing and design on the one hand and the prerequisite chemistry on the other. Students who wish to enter upon either of these courses of study or upon a combination of the two are urged to include in their work for matriculation, elementary chemistry, freehand drawing, cooking, and sewing as described under subjects 12*b*, 16, and 18 in the Circular of Information, Academic Departments.

---

### HOUSEHOLD ART

Students who intend to do advanced work in household art should have completed matriculation subjects 18*c* and 18*e*, or their equivalents, and botany and chemistry. Lower division work at the University should include History 1*A*-1*B*; Economics 1*A*-1*B*; Household Art 122; Graphic Art 6. Courses recommended: Chemistry 1*A*-1*B*; Graphic Art 7 and 14*A*-14*B*; Drawing 9; Architecture 5; Political Science 1*A*, 1*B*; Philosophy 36*A*-36*B*. Students who intend to specialize in house furnishing should take in addition Drawing CD; Drawing 3*A*, 3*B*, and 3*C* are recommended. Such a course of study precedes training in the upper division for specialization in costume design and house furnishing.

*Honor-students in the Upper Division.*—Requirements for candidacy for honors in household art at graduation are as follows:

1. The creditable completion of 24 units of major work approved by the department.
2. The continuance of the honor-status, and the privileges and opportunities offered to candidates thereby, depends upon the ability of the student to do original and independent work and upon the maintenance of a high standard in all courses as well as in the special honor-work undertaken.

A reading knowledge of French, Italian, or German is most desirable. The artistic, historic, and economic aspects of "clothing" and "shelter"

are possible fields for study. These fields may include the study of all types of decorative and applied art, the materials used, and their past and present mode of manufacture, whether by hand or machine processes. Such research is admirable as a basis for graduate work leading toward a master's degree.

#### UPPER DIVISION COURSES

NOTE.—With course 194A–194B it is strongly recommended that parallel courses be chosen from the following group: Graphic Art 114A–114B, 127A–127B, 128A–128B. Students who intend to enter the Seminar in Costume Design, 294A–294B, should normally complete these courses, and 192A–192B, 193A–193B, 194A–194B, 197 and 198.

192A–192B. Application of the Principles of Design and Proportion to Costume. Assistant Professor PATTERSON and Miss PERCIVAL.

Study of typical pattern forms; laboratory work in materials.

3 hrs., throughout the year; 1 unit each half-year. Th, 1–4. To precede or to be taken concurrently with course 193A–193B. Materials to be furnished by students. Prerequisite: matriculation subject 18c or equivalent.

193A–193B. The History of Costume. Assistant Professor PATTERSON.

Costume as pictured in the art of all ages, with a background of contemporary historical periods. Lectures illustrated with stereopticon. Students will be required to make a style book and a fee of \$4 each half-year will be charged for the photographs so used.

2 hrs., throughout the year; 2 units each half-year. Tu Th, 10. Prerequisite: History 1A–1B (will not be required of students graduating in May, 1917 or 1918).

194A–194B. The History of Costume. Laboratory Course.

Assistant Professor PATTERSON and Miss PERCIVAL.

Rendering of stuffs in pencil and color; original problems; analysis of styles from photographs and reproductions.

3 hrs., throughout the year; 1 unit each half-year. Sec. I, Tu, 1–4; Sec. II, W, 1–4. Prerequisite: Graphic Art 6, or equivalent. Course 193A–193B is required concurrently. Graphic Art 7 and 14A–14B are recommended.

195A–195B. House Furnishing.

Assistant Professor PATTERSON and Miss PERCIVAL.

4 hrs., throughout the year; 2 units each half-year. Lectures, M, 11; laboratory, M, 1–4. Prerequisite: Drawing CD, History 1A–1B, matriculation subject 18c. Architecture 110, Civil Engineering 125, and Household Art 160 and 198 should, if possible, precede or parallel this.

196. Teachers' Course.

Miss TAYLOR.

Lectures and discussion of methods.

2 hrs., first half-year; 2 units. Tu Th, 1. Conferences to be arranged. Prerequisite: senior standing.

## 197. Review and Discussion of Technique by Practical Problems.

Miss TAYLOR.

6 hrs., second half-year; 2 units. W F, 1-4. Prerequisite: approved high school courses in matriculation subjects 18c and 18e, or their equivalents, and course 198, or equivalent. Materials to be furnished by students. Recommended to be taken concurrently with course 196.

## 122. Textile Raw Materials.

Professor GILMORE.

Fibres of commerce, and those with commercial possibilities; the physical and chemical qualities and characteristics of fibres and their preparation for use on filatures, cordage and fabrics. Lectures and demonstrations.

2 hrs., second half-year. Tu Th, 9. Prerequisite: matriculation chemistry and botany.

## 198. Textiles.

Miss TAYLOR.

Evolution of the textile industries, manufacture of fabrics, analysis of fibres and fabrics, costs, garment construction.

8 hrs., first half-year; 4 units. Lectures, Tu Th, 9; laboratory, W F, 1-4. Prerequisite: course 122, Economics 1A-1B. Laboratory fee, \$1.50, covers cost of materials used for analysis and textile samples. Sewing materials to be furnished by students.

## 160. House Management.

Miss TAYLOR.

Efficiency, service, convenience, economy, as applied in the house or institution. Lectures and discussions.

2 hrs., second half-year; 2 units. Tu Th, 9. Prerequisite: matriculation subject 18e or equivalent, Economics 1A-1B.

## 199. Honor-Course.

The STAFF.

Special reading will be assigned individually, according to the interest and preference of the student, and frequent conferences with the instructor will be arranged.

Credit, not to exceed 2 units either half-year, will be determined in advance for each student.

## GRADUATE COURSES

## The Practice of Teaching.

Opportunity for practice teaching under the direction of Miss Taylor will be available either half-year in connection with Education 201. Prerequisite or parallel: course 196.

## \*294A-294B. Seminar in Costume Design.

Assistant Professor PATTERSON.

(A) Original design in materials and color drawings for modern costumes. (B) Period costumes, accompanied by historical research. Materials to be furnished by the students.

6 hrs., throughout the year; 2 units each half-year. W, 9-12; F, 8-11. Outside reading required.

\*Not to be given, 1917-18.

297. Advanced Study.  
Hours to be arranged.

Assistant Professor PATTERSON.

Allied courses which may be taken as major work in household art, with the consent of the department.

Graphic Art 114. (Advanced work in Freehand Drawing).

Assistant Professor JUDSON.

Graphic Art 117. (Advanced Color Study.)

Assistant Professor NEUHAUS.

Graphic Art 118. (Advanced Design.)

Assistant Professor NEUHAUS.

Graphic Art 127, 128. (Art Anatomy.)

Mr. NAHL.

Architecture 110. (Housing.)

Assistant Professor HAYS.

Economics 182. (The Household as an Economic Agent.)

Associate Professor PEIXOTTO.

Civil Engineering 125. (Plumbing, Heating, Ventilating, and Lighting.)

Assistant Professor LANGELIER.

---

### HOUSEHOLD SCIENCE

Students who wish to do advanced work in household science should have completed matriculation subject 18d. Courses in elementary and advanced cooking are not offered in the fall or spring sessions of the University; they may, however, be taken during the summer session. The lower division requirements are Chemistry 1A-1B, 5, 8A-8B; Economics 1A-1B. Political Science 1A, 1B, Bacteriology 1, Physiology 1, are strongly recommended. Such a course of study precedes training in the upper division for specialization in food economics or dietetics.

*Honor-students in the Upper Division.*—Students who are eligible for the honor-status are urged to enroll at the beginning of their third or junior year. The recommended sequence of courses for such students is as follows: third year, course 101A-101B, Biochemistry 101; fourth year, 120A-120B, 125 or 130, 199A-199B. Honors at graduation are awarded only on the basis of 24 units of major work and maintenance of the honor-status is dependent upon the attainment of consistently satisfactory grades in other subjects, and of high credit in household science courses.

*Laboratory fees.*—Courses 127, 130, 172 require a laboratory fee of \$5, of which \$2.50 is regarded as a deposit against breakage, the remainder after requisite deductions to be returned to the student at the end of the course.

Courses 101A-101B, 120A-120B, 125, 206 require a laboratory fee of \$10 of which \$5 is regarded as a deposit against breakage, and subject to the conditions mentioned above.

## UPPER DIVISION COURSES

## 101A-101B. Food Economics.

The composition, transportation, and preservation of common foods with reference to public economy and conservation; individual selection and preparation of such food with reference to hygiene, nutritive value, flavor, and cost.

8 hrs., throughout the year; 4 units each half-year. Lectures, Tu Th, 9; laboratory or field work, Tu, 2-5; S, 9-12. Prerequisite: Chemistry 1A-1B, 8A-8B, matriculation subject 18d (4 units).

## 120A-120B. Dietetics.

Assistant Professor MORGAN.

The quantitative basis of dietetics established through typical experiments in food analysis and calorimetry, digestion experiments, respiration and dietary records, nitrogen and mineral balances; the chemistry and physiology of digestion and metabolism with emphasis upon energy relations; the application of these principles to practical feeding problems of the individual and the group.

8 hrs., throughout the year; 4 units each half-year. Lecture, Tu Th, 11; laboratory, M W, 8-11. Prerequisite: Chemistry 5; course 101A-101B, or Biochemistry 101 (5 units).

## \*125. Quantitative Experimental Cookery. Assistant Professor DAVIS.

Practice in food preparation under controlled conditions, with quantitative analysis of the materials and products. Investigation of special problems assigned to individual students. This course is preparatory to research work in the food and nutrition field.

7 hrs., second half-year; 3 units. Lectures, W, 8; laboratory, M W, 9-12. Prerequisite: course 101A-101B; Chemistry 5.

## 126. Methods of Teaching Household Science. Assistant Professor DAVIS.

Study of suitable equipment for teaching household science in elementary and secondary schools; planning of courses, and of single lessons; observations of classes; practice in public demonstrations of food preparation and classification.

4 hrs., first half-year; 2 units. Tu, 1, F, 1-4. Prerequisite: course 120A-120B, and at least 3 units of education.

## 127. Elementary Food Course for Advanced Students.

Assistant Professor DAVIS.

A critical and constructive review of technique for students planning to teach cooking in the secondary schools. Open only to candidates for the teacher's recommendation offering a major or minor in household science.

6 hrs., second half-year; 2 units. M W, 1-4.

\*Not to be given, 1917-18.



130. The Nutrition of Development. Assistant Professor MORGAN.  
The chemistry and physiology of ovulation, intra-uterine development, lactation, and growth; normal and subnormal nutrition in infancy and childhood; practice in the solution of feeding problems.  
5 hrs., second half-year; 3 units. Lectures, Tu Th, 9; laboratory, Th, 2-5. Prerequisite: course 120A, or Biochemistry 101.
- \*172. Dyeing and Textile Chemistry. Assistant Professor MORGAN.  
The chemical examination of common textiles; a study of the chemistry of dyes and dyeing.  
4 hrs., first half-year; 2 units. Lecture, Tu, 9; laboratory, M, 1-4. Prerequisite: Household Art 198, Chemistry 5.
- 199A-199B. Honor-Course. The STAFF.  
Open only to candidates for honors; guidance for honor-students in the prosecution of special reading, laboratory or field work.  
2 hrs., throughout the year, to be arranged.

#### GRADUATE COURSES

- The Practice of Teaching Household Science.  
Opportunity for practice teaching under the direction of Assistant Professor Davis will be available either half-year in connection with Education 201. Prerequisite or parallel: course 126.
- \*206. Experimental Methods in Metabolism. — — —.  
Laboratory practice in the urine, blood, food and other analyses requisite for prescribed feeding in disturbed conditions of digestion and metabolism; metabolism experiments on animal and human subjects.  
7 hrs., first half-year; 3 units. Lecture, M, 8; laboratory, M, 9-12; Th, 1-4. Prerequisite: course 120A-120B.
214. Research. Assistant Professor MORGAN.  
The principles and methods of physical and biological chemistry applied to the investigation of problems concerned with food preparation and metabolism.  
Hours and topics to be arranged, either half-year.
215. Special Studies.  
Hours and topics to be arranged, either half-year.
216. Seminar. Assistant Professor MORGAN.  
Recent advances in the chemistry of food and nutrition, metabolism, food economics, and dietetic therapy.  
2 hrs., first half-year, to be arranged.

---

\* Not to be given, 1917-18.

**HYGIENE**

ROBERT T. LEGGE, Ph.G., M.D., F.A.C.S., Professor of Hygiene and University Physician.

WILBUR A. SAWYER, A.B., M.D., Secretary, California State Board of Health.

JOHN N. FORCE, M.D., M.S., Gr.P.H., Assistant Professor of Epidemiology.

ROMILDA P. MEADS, B.S., M.D., Assistant Professor of Hygiene and Physician for Women.

JAMES GORDON CUMMING, M.D., M.S.P.H., Dr.P.H., Director, Bureau of Communicable Diseases, State Hygienic Laboratory.

ALBERT M. MEADS, B.S., M.D., Lecturer in Hygiene and Associate University Physician.

KATE GOMPERTZ, B.S., M.D., Physician for Women.

MILTON H. SCHUTZ, A.B., M.D., Ophthalmologist in University Infirmary.

RUTH C. RISDON, B.S., M.D., Assistant Physician for Women.

CHARLES L. McVEY, A.B., M.D., Physician for Men.

RUBY L. CUNNINGHAM, M.D., M.S., Instructor in Hygiene and Assistant Physician for Women.

ALVIN POWELL, B.S., M.D., Roentgenologist.

GERALD FREDERICK STOODLEY, D.D.S., Dental Surgeon.

BENJAMIN GERRY NEFF, D.D.S., Dental Surgeon.

FRANK L. KELLY, M.D., M.S., Gr.P.H., Assistant Epidemiologist, State Board of Health.

LAURA CAIRNS, M.S., Assistant in Hygiene.

IDA M. STEVENS, M.A., Assistant in Hygiene.

ETHEL SHERMAN, Superintendent of Infirmary.

Laboratory fees are \$5 for courses 102 and 108; \$5 additional deposit is required in each laboratory course and will be refunded, less deduction for breakage, at the end of the half-year.

*Professional Course in Public Health.*—The professional course in public health comprises a curriculum in medicine, sanitary engineering, hygiene, economics, political science, veterinary science, entomology, zoology, and nutrition, the completion of which leads to the degree of Graduate in Public Health (Gr.P.H.). For details of the curriculum the student is referred to the Circular of Information, Academic Departments.

*Honor-students in the Upper Division.*—Students in the honor-group may receive honors at graduation either

1. Upon presenting a satisfactory report on a field investigation of a public health activity, or,
2. Upon a thesis based on a laboratory investigation, or,
3. Upon the completion of a course of reading on a special topic in public health.

Candidates for honors must prepare a programme at the beginning of their candidacy in consultation with the Committee on Public Health Study-Lists. In most cases the junior year will be spent in preliminary reading. In the senior year, those students who desire to take honors on the basis of reading alone will prepare for a final oral examination; while those who desire to engage in laboratory or field investigations will prepare a thesis, or report embodying their results.

The work done by honor-students must be consistently of high quality. The committee will recommend the exclusion from the honor-group of all students who do not maintain each half-year an average of at least 60 per cent of first and second grades in all their courses and who do not complete their courses in public health with high credit.

Candidates must complete 24 units in major courses chosen from the first two years of curriculum A in Public Health, and must include in their studies 12 units of major courses in hygiene.

### LOWER DIVISION COURSES

1. Principles of Hygiene and Sanitation. Professor LEGGE.  
Lectures, readings, and recitations.  
2 hrs., first half-year. Tu Th, 11. Prescribed for all undergraduate men during their first year of residence.
2. Essentials of Personal and Public Hygiene. Assistant Professor MEADS.  
Lectures, readings, and recitations.  
2 hrs., first half-year. M W, 11. Prescribed for all undergraduate women during their first year of residence.
3. Elementary Epidemiology. Assistant Professor FORCE.  
Communicable diseases now prevalent in California; their control through individual and community endeavor. General problems of food, water, insect, contact, and carrier control. Lectures, readings, recitations, and papers.  
3 hrs., first half-year. M W F, 10.

### UPPER DIVISION COURSES

#### FREE ELECTIVE COURSES

4. Domestic Hygiene. Miss CAIRNS.  
Lectures on home sanitation. Primarily for students in home economics.  
2 hrs., first half-year. Tu Th, 11.
5. Home Care of the Sick.  
Assistant Professor MEADS, Dr. GOMPERTZ, Dr. RISDON, Dr. CUNNINGHAM, and Miss SHERMAN.  
A course for women in general therapeutic measures of use in caring for individuals at home. Instruction in First Aid will be included.  
Class limited to seniors.  
2 hrs., second half-year. Sec. I, Tu Th, 9; II, Tu Th, 10; III, Tu Th, 2.

**6. Industrial Hygiene.****Professor LEGGE.**

For engineering, commerce, and forestry students. General problems in the control of epidemic and occupational diseases and sanitation of labor camps and factories, accident prevention, employees' welfare and compensation laws. Lectures, recitations, papers, and field surveys.

2 hrs., second half-year. M W, 11.

**7. First Aid.****Dr. MEADS.**

A course for men in the recognition and emergency treatment of common accidents. Class limited to eighty.

2 hrs., second half-year; 1 unit. Tu Th, 10.

**8. Mine Sanitation.****Professor LEGGE.**

For students in mining. Sanitation of mines; methods of rescue and accident treatment.

1 hr., second half-year. Tu, 4.

**MAJOR COURSES****101. Child Hygiene.****Professor LEGGE.**

Primarily for students who intend to become teachers, but open also to students of economics. The hygiene of early child life; the cause and prevention of infant mortality; health supervision of school children and the practical sanitation of schools. Lectures, readings, recitations, papers, and field assignments.

3 hrs., second half-year. M W F, 10.

**102. The Teaching of Hygiene.****Dr. CUNNINGHAM and Miss STEVENS.**

A laboratory course in methods of presenting the elements of hygiene and sanitation to children in graded schools. Primarily for persons preparing to teach hygiene.

6 hrs., first half-year; 2 units. Sec. I, Tu Th, 8-11; II, Tu Th, 1-4.

**104. Health Surveys.****Assistant Professor FORCE.**

Lectures, readings, individual reports and class field assignments on public health administration and procedures.

5 hrs., second half-year; 3 units. M W, 9; S, 9-12. Prerequisite: Bacteriology 1 and Chemistry 1A-1B.

**107. Advanced Epidemiology.****Assistant Professor FORCE.**

Lectures, readings, and individual reports on communicable diseases.

3 hrs., first half-year. M W F, 9. Prerequisite: Bacteriology 1 and Chemistry 1A-1B.

**108A-108B. Public Health Laboratory.****Assistant Professor FORCE and Miss STEVENS.****Instruction in standard methods of examination of air, water, and milk.****Laboratory practice in the detection of communicable diseases.****9 hrs., throughout the year; 3 units each half-year. M W F, 1-4. Pre-requisite: Bacteriology 1 and Chemistry 1A-1B.****GRADUATE COURSE****201. Research in Hygiene. Assistant Professor FORCE and Miss STEVENS.****Special problems worked out in the field or in the laboratory of hygiene.****Credit value to be fixed in each case.**

**IRRIGATION**

**BERNARD A. ETCHEVERRY, B.S.,** Professor of Irrigation Engineering.

**SIDNEY T. HARDING, B.S.,** Assistant Professor of Irrigation.

Courses 101, 102A, 102B, 103, 104, and 112 are designed to meet the needs of engineering students who wish to make a specialty of irrigation. They appear as part of the course in Irrigation Engineering in the College of Civil Engineering. Courses 101, 104, 105A, 105B, 113 and 115 are designed for students in the College of Agriculture. Courses 101, 103, 113, are also open to other students who have junior standing.

Students will be recommended for honors on the same basis as in civil engineering.

**UPPER DIVISION COURSES****101. Irrigation Institutions and Economics.**

Assistant Professor **HARDING.**

Water rights, irrigation institutions and organizations.

3 hrs., second half-year. Sec. I, M W F, 10, for engineering students only; Sec. II, M W F, 8, open to non-engineering students. Prerequisite: course 103 or 113.

**102A. Irrigation Engineering.**

Professor **ETCHEVERRY.**

Investigation and general planning of irrigation systems; conveyance of water; silt problems; designs of canals, tunnels, flumes, pipe-lines, inverted siphons.

2 hrs., second half-year. Tu Th, 8. Prerequisite: Civil Engineering 110 or Mechanical Engineering 103A.

**\*102B. Irrigation Engineering.**

Professor **ETCHEVERRY.**

Principles of design of diversion weirs, headworks, wasteways, sand boxes, falls, checkgates, lateral headgates, road crossing, special types of distribution systems, measuring devices.

2 hrs., first half-year. Tu Th, 9. Prerequisite: course 102A.

**103. Agricultural Use of Water and Irrigation Practice.**

Professor **ETCHEVERRY.**

Sources of water supply; disposal of irrigation water applied to the soil; water requirement of crops; duty of water; preparation of land and methods of irrigation; small pumping plants.

2 hrs., first half-year; 2 units. Tu Th, 11. For engineering students, but open to other students excepting those in the College of Agriculture, for whom course 113 is offered. Prerequisite: junior standing.

---

\* Not to be given, 1917-18.

**104. Drainage.****Professor ETCHEVERRY.**

The structure of soils and its relation to drainage; planning of drainage systems for overflow lands and for waterlogged and alkali lands; organization of drainage districts.

2 hrs., second half-year. Tu Th, 9. Prerequisite: junior standing.

**105A. Agricultural Hydraulics and Elements of Irrigation Engineering.****Professor ETCHEVERRY.**

Principles of hydraulics as applied to irrigation systems. The elements of irrigation projects; the conveyance of water in canals, tunnels, flumes, and pipe-lines.

5 hrs., second half-year; 3 units. Tu Th, 10; W, 1-4. Open to students in the College of Agriculture. Not open to students who receive credit for course 102A. Prerequisite: Civil Engineering 1.

**105B. Agricultural Hydraulics and Elements of Irrigation Engineering.****Professor ETCHEVERRY.**

Irrigation structures, their function and proportions; systems of distribution; measurement of water and measuring devices.

2 hrs., first half-year. Tu Th, 8. Prerequisite: course 105A.

**112. Irrigation Design.****Professor ETCHEVERRY.**

The design of irrigation structures, such as headgates, flumes, and drops; estimates of cost of such structures.

6 or 9 hrs., first half-year; 2 or 3 units. Tu Th, 1-4. Prerequisite: course 102, Civil Engineering 108A-108B.

**113. Agricultural Use of Water and Irrigation Practice.****Assistant Professor HARDING.**

Soil moisture and plant growth; disposal of irrigation water applied to the soil; water requirement of crops; duty of water: preparation of land and methods of irrigation; farm ditches and structures; small pumping plants; measurement of water.

3 hrs., first half-year; 3 units. Three sections: I, Tu Th S, 9; II, Tu Th S, 10; III, Tu Th S, 11. For students in the College of Agriculture, but open to other students. Prerequisite: junior standing.

**115. Irrigation Drawing.****Assistant Professor HARDING.**

Drawing and making estimates of typical irrigation structures as used on the farm.

6 hrs., first half-year; 2 or 3 units. Tu Th, 1-4. For students in the College of Agriculture. Prerequisite: course 105.

**119. Undergraduate Thesis Course.**

2 units, either half-year.

**GRADUATE COURSES****202. Irrigation Design.****Professor ETCHEVERRY.**

Advanced design of irrigation structures.

6 hrs., second half-year; 2 units. Prerequisite: course 112. Open to specially prepared seniors.

**207. Operation and Maintenance of Irrigation Systems.****Assistant Professor HARDING.**

2 hrs., first half-year. Prerequisite: courses 113 and 105 for agricultural students; courses 103 and 102 for engineering students.  
Open to specially prepared seniors.

**208. Seminar in Irrigation.****Professor ETCHEVERRY and Assistant Professor HARDING.**

Conferences on topics concerning the development of irrigation industry.  
Hours to be arranged. Open to specially prepared seniors.



**JURISPRUDENCE**

WILLIAM CAREY JONES, M.A., Professor of Jurisprudence and Director of the School of Jurisprudence.

ORRIN K. McMURRAY, Ph.B., LL.B., Professor of Law.

CURTIS H. LINDLEY, LL.D., Honorary Professor of the Law of Mines and Water.

<sup>1</sup>ALEXANDER M. KIDD, A.B., LL.B., Professor of Law.

EDWARD ELLIOTT, Ph.D., Professor of Politics and International Law.

FRANCIS S. PHILBRICK, Ph.D., LL.B., Professor of Law.

<sup>1</sup>EUGENE A. GILMORE, A.B., LL.B., Professor of Law.

MATTHEW C. LYNCH, B.L., J.D., Associate Professor of Law.

AUSTIN T. WRIGHT, A.B., LL.B., Associate Professor of Law.

FARNHAM P. GRIFFITHS, B.L., A.B., Lecturer in Law.

ARTHUR G. TASHEIRA, A.B., LL.B., Lecturer in Law.

WILLIAM E. COLBY, LL.B., Lecturer on Law of Mines and Water.

MAURICE E. HARRISON, A.B., J.D., Lecturer in Law.

ALLAN P. MATTHEW, A.B., LL.B., Lecturer on the Law of Public Utilities.

JOHN U. CALKINS, Jr., B.L., J.D., Lecturer in Commercial Law.

HERMAN H. PHLEGER, B.S., Lecturer in Law.

CHARLES E. TOWNSEND, Ph.B., LL.B., Lecturer on Patent Law.

**SCOPE OF THE SCHOOL OF JURISPRUDENCE**

The design of the School of Jurisprudence is to furnish instruction, whether historical, theoretical, or practical, in the whole orbit of law, international, public, and private. On the historical and theoretical side it offers courses in comparative law, Roman law, jurisprudence, or the theory of law, and on various topics in the history of the common law.

On the practical side, it offers a complete professional curriculum, based on at least three years of academic training. The main body of this curriculum is of general application, constituting a preparation for the practice of law in any jurisdiction founded on the common law. At the same time, emphasis is given to courses which direct attention to local legal conditions and practice in the Western states such as mining law, water law, and code procedure. The case method of instruction is used in the professional courses.

**BOALT HALL OF LAW**

The School of Jurisprudence occupies the Boalt Memorial Hall of Law, a building designed exclusively for the purposes of legal instruction. It was erected through the generosity of the late Mrs. Elizabeth Boalt, supplemented by subscriptions from California lawyers, as a memorial to her husband, the late John H. Boalt.

<sup>1</sup>In residence first half-year only; <sup>2</sup>, second half-year only.

*Law Library.*—The law library contains a valuable collection of over twenty thousand volumes, and is being constantly extended and improved. It is conveniently placed in connection with the reading room in Boalt Hall of Law.

*Law Library Fee.*—A law library fee of \$12.50 each half-year is charged all students, regular and special, who are registered in more than one professional course in law. All moneys accruing from such fees are devoted to the purchase of books for the law library of the School of Jurisprudence.

*Admission to the Professional Curriculum.*—The following persons will be admitted without examination, as candidates for the degree of Juris Doctor: (1) graduates of any college of the University of California, and of other colleges and universities of approved grade; (2) students admitted to senior standing in the University of California.

Students who enter the professional curriculum with senior standing may obtain the academic bachelor's degree on the satisfactory completion of the first year of such curriculum, provided that not more than 26 units of professional law work will be counted toward the bachelor's degree.

The student entering the University with the intention of pursuing the course in law is advised to map out his undergraduate curriculum with great care. He is invited to consult members of the School of Jurisprudence in respect thereto.

Any student who has secured the junior certificate and has done one year's additional work in the University, or who, in other words, is ready to enter upon the senior year of the undergraduate course, may take up the regular professional curriculum in law. The course in Roman law and jurisprudence, however, should regularly be taken in the junior year. Other subjects in law that may also be taken before the undergraduate senior year are elementary law and international law.

The intending student of law who is prepared to do so is advised to enroll in the College of Letters and Science and pursue a full classical curriculum. If such a course is not attainable, the student is advised to take as thorough a course in Latin as possible. Such study will be profitable to him in many ways, and will open up the possibility of scholarly research in civil law and jurisprudence in the graduate years. The attention of the law student is called to the course in elements of law Latin (Latin LA-LB) offered by the department of Latin.

Every student of law should normally pursue a systematic course in history, political science and economics. The department of history has adjusted some of its courses with special reference to the needs of the law students. Under this arrangement, the intending law student is advised to take History 1A-1B, General History, in the freshman year. If he does good work in this subject, he will be admitted, in his sophomore year, to the two junior courses, 151, History of England, and 171, American History. He will then be eligible, in his junior year, to take the two senior courses, 152, English Constitutional History, and 172B, American Constitutional History. In political science, he should take, at least, Political Science 1A. In economics, he should take Economics 1A-1B, 101, or 100, and courses in accounting. Having taken these subjects in political science and economics not later than his sophomore year, he will be in a position to elect in his junior year such subjects as municipal government, political theories, modern industrialism, banking, public finance, railway problems, and other fruitful courses offered by the departments of political science, economics, and history.

The intending student of law is likewise advised to make careful selection of courses in the departments of English and philosophy.

Whatever direction the student's pre-legal training may take, whether in history, letters, pure science, or applied science, the importance cannot be too strongly impressed upon him of pursuing systematic and thorough courses in one or two departments rather than of making up a curriculum of fragmentary and unrelated subjects in a number of departments.

#### MOOT COURTS

Students in the first year of the professional course are expected to prepare and argue several cases in the moot courts during the year. Second-year and third-year students supervise and assist in this work. Special sessions of these courts are planned so that third-year students taking the courses in evidence and practice may conduct the trials of cases which are specially prepared.

#### FURTHER INFORMATION

For fuller information in regard to the law school, consult the annual Announcement of the School of Jurisprudence.

#### LOWER DIVISION COURSES

##### 10A-10B. Elementary Law.

Professor PHILBRICK.

The general principles of the law. Students who intend to continue the study of law are advised to take this course in their sophomore year.

2 hrs., throughout the year. Two sections: Tu Th, 9, 11.

##### 18A-18B. Commercial Law.

Dr. CALKINS.

2 hrs., throughout the year. M W, 8. For students in the College of Commerce. Students who intend to pursue the professional curriculum are advised ordinarily not to take this course.

#### UPPER DIVISION COURSES

##### 103A-103B. Principles of International Law.

Professor ELLIOTT.

2 hrs., throughout the year. M W, 10.

##### 105A-105B. Roman Law: Jurisprudence.

Mr. GRIFFITHS.

History of the development of the public and private law of the Romans; systematic and historical exposition of Roman law, with comparative views of the chief modern systems; the science of positive law.

2 hrs., throughout the year. Tu Th, 8. The student is advised to take this course in the junior year. Required for the major in jurisprudence and for the degree of J.D. Course 105A is prerequisite to course 105B, except that instead of course 105A students may take Latin 121 (see below).

- 107A-107B. Anglo-American Legal Institutions. Professor McMURRAY.  
An historical survey of the principal English and American legal institutions. For students of law in their junior year.  
2 hrs., throughout the year. Tu Th, 10.
- Elementary Roman Law. [See Latin 121.] Professor MERRILL.  
The Institutes of Justinian.  
3 hrs., first half-year, to be arranged.
- 118A-118B. Advanced Commercial Law. Dr. CALKINS.  
The study of cases of principal importance. For senior students in the College of Commerce, but open to other upper division students with the consent of the instructor. Credit in this course cannot be applied toward the total units of law required for the J.D. degree.  
2 hrs., throughout the year. Tu Th, 8.
- Administrative Law of Modern European States (see Political Science 118). Dr. EHELICH.
- \*109. School Legislation of California. Professor JONES.  
An interpretative and critical study of California school law as a resultant of social and political conditions and forces.  
2 hrs., second half-year. S, 8-10.

### THE PROFESSIONAL CURRICULUM

#### *First Year*

- 111A-111B. The Law of Property I. (a) Personal Property; (b) Introduction to Real Property. Professor McMURRAY.  
3 hrs., throughout the year. M W F, 10.
- 112A-112B. The Law of Torts. Professor JONES.  
2 hrs., first half-year; Tu Th, 10. 3 hrs., second half-year, Tu Th, 10, F, 9.
113. Criminal Law and Procedure. Professor GILMORE.  
4 hrs., first half-year. Tu Th, 9; W F, 8.
- 115A-115B. The Law of Contracts. Associate Professor LYNCH.  
3 hrs., throughout the year. First half-year, M W F, 9; second half-year, M W, 9, F, 8.
119. Common Law Procedure. Associate Professor WRIGHT.  
1 hr., first half-year. Th, 11.
120. Law of Associations I. (Agency.) Associate Professor WRIGHT.  
2 hrs., second half-year. M W, 8.
122. Equity I. Associate Professor LYNCH.  
2 hrs., second half-year. Tu Th, 9.

---

\* Not to be given, 1917-18.

## GRADUATE COURSES

NOTE.—While all the courses in the second and third years are elective, they are distributed by years and are so arranged on the schedule of exercises. The student is advised to observe this arrangement by years, so as to secure the advantage of proper sequence of study and avoid conflict in hours of lecture.

*Second Year*

217. The Law of Property II. (a) Conveyances; (b) Wills and Administration. Professor McMURRAY.

3 hrs., throughout the year. M W, 11; F, 8.

202. Constitutional Law. Professor JONES.

2 hrs., throughout the year. Tu Th, 9.

225. Law of Associations II. Agency, Partnership, Corporations. Associate Professor WRIGHT.

3 hrs., throughout the year. M W F, 10.

227. Equity II. (a) Equity; (b) Trusts. Associate Professor LYNCH.

2 hrs., first half-year; Tu Th, 10. 3 hrs., second half-year, Tu Th, 10; F, 9.

230. Business Law. Mr. TASHEIRA.

Negotiable instruments, mortgages, trust deeds, banking.

2 hrs., throughout the year. M W, 8.

231. The Law of Suretyship. Professor PHILBRICK.

2 hrs., first half-year. M W, 9.

235. The Law of Damages. Professor PHILBRICK.

2 hrs., second half-year. M W, 9.

216. The Law of Mines I. Mr. COLBY.

2 hrs., first half-year. Tu Th, 8.

NOTE.—By arrangement, students in the College of Mining may take a portion of this course and receive one unit of credit.

210. The Law of Water. Mr. COLBY.

2 hrs., second half-year. Tu Th, 8.

- 203A-203B. Seminar in International Law. Professor ELLIOTT.

2 hrs., throughout the year. M, 3-5.

270. History of European Law. Professor PHILBRICK.

A reading course. Part of the reading to be done by each student will be selected either with general reference to a particular country, or with comparative reference to a general movement in different countries; and part will be selected with comparative reference to the history of a particular branch of law, upon which a paper will be prepared.

1 hr., first half-year, to be arranged.

## 275. Modern Juristic Thought.

Professor PHILBRICK.

A reading course. Books and articles will be assigned for study,  
and each student will prepare a paper.

1 hr., second half-year, to be arranged.

*Third Year*

## 221. The Law of Evidence.

Professors GILMORE and KIDD.

2 hrs., throughout the year. Tu Th, 10.

## 229. Code Procedure.

Dr. HARRISON.

2 hrs., throughout the year. S, 8-10.

## 240. Conflict of Laws.

2 hrs., throughout the year. M W, 11.

## 224. The Law of Sales.

Associate Professor LYNCH.

3 hrs., first half-year. Tu Th, 11, F, 8.

## 226. The Law of Public Service.

Mr. MATTHEW.

2 hrs., throughout the year. Tu Th, 8.

## 208. The Law of Municipal Corporations.

Professor JONES.

2 hrs., second half-year. W, 10-12.

## 243. Insolvency and Bankruptcy.

Mr. PHLEGER.

2 hrs., first half-year. M W, 8.

## 218. The Law of Mines and Water II.

Mr. COLBY.

Original research upon assigned topics with class reports and criticisms.  
Open to qualified students who have completed course 216 or course  
210.

1 hr., either half-year, to be arranged.

## 233. Practice.

Professor KIDD.

2 hrs., second half-year. M F, 10.

## 209. Anglo-American Jurisprudence. Research course.

Professor PHILBRICK.

2 hrs., first half-year, to be arranged.

## 245. Comparative Law.

Professor PHILBRICK.

Comparative history of selected legal ideas.

2 hrs., second half-year, to be arranged.

## 207. Seminar in Roman Law.

Professor JONES.

2 hrs., first half-year, to be arranged.

## 244. Admiralty.

Associate Professor WRIGHT.

2 hrs., first half-year. Th F, 9.

**254. Seminar in Admiralty and Maritime Law.**

Associate Professor WRIGHT.

2 hrs., second half-year, to be arranged. Prerequisite: course 244.

**250. Persons.**

Associate Professor WRIGHT.

2 hrs., first half-year. M Tu, 9.

**251. Quasi Contracts.**

Mr. PHLEGER.

2 hrs., second half-year. M W, 8.

**260. The Law of Patents, Trademarks, and Copyrights.** Mr. TOWNSEND.

2 hrs., first half-year. W, 9-11.

**Seminar in the Public Law of Modern European States** (see Political Science 209).  
Dr. EHRLICH.

**NOTE.**—Students who plan to take the law courses in their senior year should have all other college work completed by the end of their junior year.

Students in the College of Commerce who desire to take more than courses 10A-10B, 18A-18B, 118A-118B, and 103A-103B should consult the Director of the School.

Graduate standing implies that the student has credit for courses 105A-105B, 111A-111B, 112A-112B, 113, 115A-115B, 119, 120, 122.

Latin 121 may be included in the advanced work in jurisprudence.

### LATIN

WILLIAM A. MERRILL, Ph.D., L.H.D., Professor of the Latin Language and Literature.

LEON J. RICHARDSON, A.B., Associate Professor of Latin.

CLIFTON PRICE, Ph.D., Assistant Professor of Latin.

HERBERT C. NUTTING, Ph.D., Assistant Professor of Latin.

OLIVER M. WASHBURN, A.B., Assistant Professor of Classical Archaeology.

MONROE E. DEUTSCH, Ph.D., Assistant Professor of Latin.

TORSTEN PETERSSON, Ph.D., Instructor in Latin.

*College of Letters and Science.*—Students in the College of Letters and Science who have credit for matriculation subject 6 may satisfy any prescription of additional Latin by approved combinations of courses A, B, C, L, 1B, 1C, 5B, aggregating 6 units.

Students who are preparing for major work in Latin will find it to their advantage to acquire a reading knowledge of French and German, and to take as much work in Greek and ancient history as may be possible.

*Honor-students in the Upper Division.*—Students in the honor-group whose major subject is Latin may receive honors at graduation by passing a special examination at the end of the senior year or by maintaining a superior quality of work throughout the course. At the outset of each half-year they will submit their study-lists for approval to the head of the department. Thereafter they will proceed with their work under the supervision of their instructors, attending conferences and making such reports of progress as may be asked for. At the close of each half-year the department will recommend the exclusion from the honor-group of students who have fallen below the standard and the promotion to the group of those whose work merits distinction.

*Courses in Other Departments.*—As part of the 24 units required of candidates for honors in Latin major courses in the following subjects will be accepted: Greek, ancient history, Roman law, linguistics, Sanskrit, philosophy, and such major courses in English or foreign languages as deal with literary types. The number and character of acceptable courses will vary with circumstances, and will be determined in the case of each student when his proposed study-list is submitted for approval.

### LOWER DIVISION COURSES

Courses A and B are intended mainly for students who enter with two or three years of preparatory Latin.

B. Third-year Latin, Ciceronian Prose.

Assistant Professors NUTTING, WASHBURN, DEUTSCH, and Dr. PETERSSON.

3 hrs., either half-year. First half-year, Tu Th S, 8. Second half-year, M W F, 2. Prerequisite: matriculation subject 6. Not open to students who present Cicero at matriculation.



A. Fourth-year Latin, Augustan Poetry.

Assistant Professors NUTTING, PRICE, WASHBURN, DEUTSCH, and Dr. PETERSSON.

3 hrs., either half-year. Second half-year, Tu Th S, 8. First half-year, M W F, 8, 10. Intended for students who have received credit for course B and also for students who enter with but 9 units of matriculation Latin. Not open to students who present Virgil at matriculation.

LA-LB. Elements of Law Latin.

Professor MERRILL.

This course is planned for future students of the law.

3 hrs., throughout the year. M W F, 10. Prerequisite: matriculation subject 6. Latin L is not a substitute for Latin 1 or 2.

1. Cicero and Pliny.

Assistant Professors PRICE, DEUTSCH, and Dr. PETERSSON.

The Cato Maior of Cicero and the Letters of Pliny. Systematic study of syntax and synonyms. Practice in reading aloud and in translation at hearing, and in pronunciation, phrasing and emphasis.

3 hrs., either half-year. First half-year, M W F, 8, 9; Tu Th, 9, and a third hour. Second half-year, M W F, 10. Prerequisite: matriculation subjects 7a and 7b or their equivalent.

2. Plautus and Catullus (or Livy).

Assistant Professors PRICE, DEUTSCH, and Dr. PETERSSON.

One play of Plautus; selections from Catullus.

3 hrs., either half-year. First half-year, M W F, 2. Second half-year, M W F, 8, 9. Prerequisite: course 1.

5. Horace and Virgil.

Associate Professor RICHARDSON and Assistant Professor PRICE.

The Odes and Epodes of Horace. Private readings of selections from Virgil's Aeneid, VII-XII.

3 hrs., either half-year. First half-year, M W F, 9; Tu Th, 9 and a third hour. Second half-year, Tu Th, 9; M, 4. Prerequisite: course 2.

COURSES IN SIGHT TRANSLATION

The object of these courses is to gain ability to read, and in some measure to speak, the Latin language. Courses 1B, 1C, and 5B will be found especially useful to students who have found it necessary to give up the study of Latin in the ordinary courses.

1B. Sight Translation, I.

Assistant Professor DEUTSCH.

Practice in reading at sight from easy authors, particularly Caesar.

2 hrs., first half-year; 1 unit. Tu Th, 1. Prerequisite: matriculation subject 6. Intended especially for freshmen in any college, but may be taken by more advanced students, in either the lower or upper division, who do not pursue other courses in Latin; or without credit by advanced students in Latin.

## 1c. Sight Translation, II.

Assistant Professor DEUTSCH.

Practice in reading at sight from Cicero.

2 hrs., second half-year; 1 unit. Tu Th, 1. Prerequisite: matriculation subject 7a, or course B, or course 1b. Intended especially for freshmen in any college, but may be taken by more advanced students, in either the lower or upper division, who do not pursue other courses in Latin; or without credit by advanced students in Latin.

## 5b. Sight Translation, III.

Associate Professor RICHARDSON.

Translation at sight of more difficult Latin, and translation at hearing.

2 hrs., either half-year; 1 unit. Tu Th, 11. Prerequisite: course 5 completed or in progress, or course 1b, or course 1c, or the consent of the instructor. This course may be repeated with credit. Intended especially for sophomores, and may be taken by more advanced students, whether pursuing other courses in Latin or not as a free elective. Students may enter this course either in August or January.

## COURSES IN LATIN WRITING, LOWER AND UPPER DIVISION

The object of the courses in Latin writing is, first, training in forms and syntax; later, in idiom, style, and periodology through imitation of classical examples; finally, in original composition.

## CA-CB. Latin Composition, Preliminary Course.

Assistant Professor NUTTING.

1 hr., throughout the year. S, 9. Prerequisite: matriculation subject 6b.

## 3A-3B. Latin Composition, I.

Assistant Professor NUTTING.

Exercises in writing Latin prose narrative.

1 hr., throughout the year. Th, 1, 2. Prerequisite: matriculation subjects 7c<sup>1</sup>, or 7c<sup>2</sup>, or course CA-CB.

## 104A-104B. Latin Composition, II.

Assistant Professor DEUTSCH.

Writing in Latin in periodic style.

1 hr., throughout the year. Tu, 2. Prerequisite: course 3A-3B. Students may be promoted into this course from course 3A-3B at mid-year, in special cases.

## 112A-112B. Latin Composition, III.

Associate Professor RICHARDSON.

Translation of English selections and of Latin poetry into Latin prose. Training in Latin expression and construction.

1 hr., throughout the year. F, 1. Prerequisite: course 104A-104B.

## 113A-113B. Latin Composition, IV.

Professor MERRILL.

Original Latin essays; practice in narrative and argument.

1 hr., throughout the year, to be arranged. Prerequisite: course 112A-112B.

## 285. Advanced Latin Composition. [See graduate courses.]

# UPPER DIVISION COURSES

Courses A, B, L, 1 to 5, author courses; 1B, 1C, 5B, sight reading; CA-CB, 3A-3B, composition courses; all of which as described above with prerequisites necessary, may be taken as free electives by students in the upper division.

The specific prerequisite for all of the major courses is course 5. Course 107, 108, or 110 must precede all others, and but one of them may be taken.

## MAJOR COURSES

104. Latin Composition, II. [See above.]

107. Tacitus, *Germania* and *Agricola*. Mackail's *Roman Literature*.  
Associate Professor RICHARDSON.

3 hrs., first half-year. Tu Th, 9; F, 4. Prerequisite: course 5. Not open to students who have credit for course 108 or 110.

110. Horace, *Satires* and *Epistles*. Assistant Professor PRICE.

3 hrs., second half-year. M W F, 8, 9. Prerequisite: course 5. Not open to students who have credit for course 107 or 108.

112A-112B. Latin Composition, III. [See above.]

113A-113B. Latin Composition, IV. [See above.]

116. Ovid; Propertius. Associate Professor RICHARDSON.

Ovid, *Fasti*; Propertius, Book IV. Roman religion and folk-lore, with modern parallels.

3 hrs., first half-year. Tu Th, 10; W, 4.

117. Virgil's *Georgics*. Associate Professor RICHARDSON.

Reading, translation, and exegesis. Theory of the Virgilian hexameter, and the art of reading classical Latin poetry.

2 hrs., first half-year. M W, 10.

119. Patristic Latin. Professor MERRILL.

The Confessions of St. Augustine and the Christian Hymn Writers, with particular reference to the language.

2 hrs., second half-year. M W, 11.

121. Elementary Roman Law. Professor MERRILL.

The Institutes of Justinian.

3 hrs., first half-year, to be arranged. This course is listed in the department of jurisprudence. It is open also to students who have credit for course L, and to others by permission of the instructor.

122. Roman Literature. Dr. PETERSSON.  
Lectures, and reading in Latin and English.  
3 hrs., second half-year. M W F, 9.
123. Tacitus, Suetonius. Professor MERRILL.  
Tacitus, *Annals*; Suetonius, *Tiberius*. The character of Tiberius.  
2 hrs., first half-year. M W, 11.
125. Lucretius: *De Rerum Natura*. Associate Professor RICHARDSON.  
Criticism and interpretation of the poem and outline of the Epicurean system.  
3 hrs., second half-year. Tu Th, 10; W, 4.
135. Teachers' Training Course. Associate Professor RICHARDSON.  
Problems in teaching Latin; estimates of text-books; examination of questions in pronunciation and syntax; exercises in teaching preparatory authors.  
3 hrs., second half-year. M W F, 2. Additional prerequisite: senior or graduate standing.
139. Roman Comedy. Assistant Professor DEUTSCH.  
Selected plays of Plautus and Terence. Study of the language and versification, and of the poet's relations to the sources and to earlier comedy, with some consideration of the customs of the Roman stage.  
3 hrs., second half-year. Tu Th, 9, and a third hour.
- 140A. Latin Grammar: Forms; Syntax of the Noun. Assistant Professor NUTTING.  
Lectures, with occasional tests, on the forms of declension and conjugation and on the syntax of the cases.  
2 hrs., second half-year. M W, 1.
141. Palaeography and Text Criticism. Assistant Professor PRICE.  
Lectures on palaeography and practice in reading fac-similes and original manuscripts. Practical exercises conducted by students.  
3 hrs., second half-year. Tu Th, 3, and a third hour.
151. Cicero: *Tusculan Disputations*. Assistant Professor NUTTING.  
Criticism and interpretation.  
3 hrs., first half-year. M W F, 3.
154. Ancient Rome. Assistant Professor WASHBURN.  
Illustrated lectures on the topography and monuments of Ancient Rome. Collateral reading and reports.  
2 hrs., second half-year. Tu Th, 11.

177. Life of Caesar. Assistant Professor DEUTSCH.  
Caesar's career will be studied from the sources; Suetonius' life will be read in class, while selections from other Latin authors will be read privately.  
3 hrs., first half-year. Tu Th, 9, and a third hour.
181. Select Titles from the Digest. Professor MERRILL.  
Books 18, 19, 20, 21. and 13.7 being part of the law of Contracts.  
3 hrs., second half-year, to be arranged. The consent of the instructor must be obtained before registration in this course.
188. Caesar and Nepos. Assistant Professor NUTTING.  
A study of these authors from the point of view of their adaptability for use in the high school course. Extensive reading in the Latin texts.  
2 hrs., first half-year. M W, 1.
192. Pompeii. Assistant Professor WASHBURN.  
Illustrated lectures on the monuments of the city. Collateral reading with reports.  
2 hrs., first half-year. Tu Th, 11.

#### FREE ELECTIVE COURSE

22. Masterpieces of Roman Literature. Dr. PETERSSON.  
Lectures and private reading. No knowledge of any foreign language is required.  
2 hrs., second half-year. M W, 9. Prerequisite: junior standing in any college.

#### GRADUATE COURSES

- 230A-230B. Latin Verse Composition. Associate Professor RICHARDSON.  
Writing of Latin hexameters, elegiacs, sapphics, asclepiads and alcaics. Seniors who have completed course 112A-112B may be admitted with the consent of the instructor.  
1 hr., throughout the year. F, 3.
- 234A-234B. Latin Seminar. Professor MERRILL.  
Criticism and interpretation of the *Silvae* of Statius. Training in philological method and in textual criticism. Lectures, exercises, and original papers.  
3 hrs., throughout the year; 3 units first half-year; 5 units second half-year. S, 10-12; Th, 4. Required normally of all candidates for higher degrees who make Latin their major subject.
- 259A-259B. Seminar in Latin Syntax. Assistant Professor NUTTING.  
The work of the first half-year will be mainly the collection of material; the second half-year will be devoted to seminar exercises. A reading knowledge of German is essential.  
2 hrs., throughout the year, to be arranged.

**266. Catiline's Conspiracy.**Assistant Professor **NUTTING.**

A study, from the sources, of the causes and events of Catiline's Conspiracy. The data will be selected in part through private reading.

3 hrs., second half-year. M W F, 3.

**283A-283B. Seminar in Classical Archaeology.**Assistant Professor **WASHBURN.**

Greek and Italian vases as documents in ancient history. Such problems as the Dorian invasion, Ionia, colonizing, the Etruscans, the Gallic invasion, trade-routes, and commerce, will be studied in connection with this course. Required of all candidates for higher degrees who make classical archaeology their major subject.

2 hrs., throughout the year. S, 9-11.

**285. Advanced Latin Composition.**Assistant Professor **NUTTING.**

From the point of view of teaching the subject. Practice in making English exercises for translation into Latin. Collection of material bearing on the style and idiom of Cicero.

1 hr., either half-year. F, 1.

**291. Cicero.**Dr. **PETERSSON.**

A study of Cicero's character and his political and literary attitude as influenced by events in his life. The course will endeavor to give a comprehensive view of Cicero's life and works, and to afford training in investigation. Each member of the class will be required to write a brief essay.

3 hrs., first half-year. Tu Th, 3, and a third hour.

**SUSPENDED COURSES**

The following courses will not be given in 1917-18: 108, Cicero's Letters; 115, Elegiac Poetry; 118A, Tacitus, Histories; 118B, Suetonius; 120, Martial and Juvenal; 124, Early Latin; 126, Quintilian; 131, Roman Satire; 133, Cicero, De Finibus; 137, Catullus; 140B, Latin Grammar, Syntax; 143, Roman Religion; 153, Roman Private Life; 156, Roman Tragedy; 162, Plautus; 169 Statius and Ausonius; 171, Livy; 173, Aeneid of Virgil; 176, Roman Novel; 189, Introduction to Classical Archaeology; 191, Cicero; 193, Virgil from the Monuments; 195, Prose Literature of Empire; 260, Roman Epigraphy; 277, Life of Caesar.

**LINGUISTICS****101A. Phonetics.**Assistant Professor **DEMETER.**

An introduction to the general principles of phonetics, with illustrations from English, French, and German. Recommended for advanced students who intend to take courses in philology, ancient or modern, or in linguistic theory.

2 hrs, first half-year. M W, 11.

# MATHEMATICS

MELLEN W. HASKELL, Ph.D., Professor of Mathematics.  
 GEORGE C. EDWARDS, Ph.B., Professor of Mathematics.  
 DERRICK N. LEHMER, Ph.D., Associate Professor of Mathematics.  
 CHARLES A. NOBLE, Ph.D., Associate Professor of Mathematics.  
 THOMAS M. PUTNAM, Ph.D., Associate Professor of Mathematics.  
 JOHN H. McDONALD, Ph.D., Assistant Professor of Mathematics.  
 BALDWIN M. WOODS, Ph.D., Assistant Professor of Theoretical Mechanics.  
 BENJAMIN A. BERNSTEIN, Ph.D., Instructor of Mathematics.  
 FRANK IRWIN, Ph.D., Instructor in Mathematics.  
 THOMAS BUCK, Ph.D., Instructor in Mathematics.  
 HARRY N. WRIGHT, Ph.D., Instructor in Mathematics.  
 FRANK R. MORRIS, M.A., Teaching Fellow in Mathematics.  
 CLYDE WOLFE, M.A., Teaching Fellow in Mathematics.

*Honor-students in the Upper Division.*—Students who wish to become honor-students in mathematics must obtain permission from the department. They should elect courses 5, 6, 8, and 9 in the lower division. The specific courses in preparation for the final examination are 109A-109B, 111, 112, 114, and 119. But work in course 199, in which honor-students are expected to enroll throughout the upper division, may, with the approval of the department, be substituted for one or more of these courses.

All candidates for honors in mathematics will be expected to pass a general examination in that subject in lieu of the examinations of the special courses of their final half-year. The examination will be partly written and partly oral, and will include the following subjects:

1. Geometry of the plane and of space, both analytic and projective.
2. The differential and integral calculus, including the elements of differential equations.
3. Algebra: theory of algebraic equations.

## LOWER DIVISION COURSES

### A. Algebra.

3 hrs., either half-year. Tu Th S, 9, 10, 11. Course A is substantially equivalent to matriculation subjects 4a<sup>1</sup> and 4a<sup>2</sup>.

### B. Solid and Spherical Geometry. Assistant Professor McDONALD.

2 hrs., either half-year, Tu Th, 9. Course B is equivalent to matriculation subject 4b.

### C. Plane and Spherical Trigonometry.

3 hrs., either half-year. Tu Th S, 9, 10, 11. Course C includes matriculation subject 12a<sup>1</sup>. Prerequisite: course A or matriculation subject 4a<sup>1</sup>.

**E. Algebra and Plane Trigonometry.****Mr. WOLFE.**

This course is planned for the needs of students in the College of Commerce.

4 hrs., either half-year. M Tu Th F, 10.

**1. Elements of Analysis.****Associate Professor LEHMER.**

Fundamental ideas of algebra, trigonometry, analytic geometry, and differential and integral calculus.

5 hrs., first half-year. M Tu W Th F, 2. Students who elect course 1 are required to present 5 units of mathematics instead of 6 for the junior certificate.

**2. Mathematical Theory of Investment.****Associate Professor PUTNAM, Dr. WRIGHT and Mr. WOLFE.**

4 hrs., either half-year. M Tu Th F, 10. Prerequisite: course E (or its equivalent). Prescribed in the College of Commerce.

**3-4. Elements of Analysis, with Applications.**

A practical two-year course in algebra, analytic geometry, the differential and integral calculus, adapted particularly to the needs of students in engineering, architecture, and chemistry.

**3A-3B. Plane Analytic Geometry and Differential Calculus.**

3 hrs., throughout the year, beginning either half-year. M W F, 8, 9, 10. 3B will be given first half-year, Tu Th S, 8.

**3AB. Plane Analytic Geometry and Differential Calculus.**

6 hrs., second half-year. Daily at 10. For freshmen entering in January only.

**4A-4B. Solid Analytic Geometry and Integral Calculus.**

3 hrs., throughout the year, beginning either half-year. M W F, 8, 9, 10. 4B will be given first half-year. Tu Th S, 8.

**5. Plane Analytic Geometry.****Professor EDWARDS.**

The straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree.

3 hrs., either half-year. M W F, 2. Prerequisite: course C.

**6. Introduction to Projective Geometry.****Associate Professor LEHMER and Dr. WRIGHT.**

3 hrs., either half-year. First half-year, M W F, 10; second half-year, M W F, 3. Course 6 includes matriculation subject 12a<sup>1</sup>. Required of all candidates for the teacher's recommendation.

**8. Advanced Algebra.****Professor EDWARDS.**

Permutations and combinations, probabilities, convergency of series, complex numbers.

3 hrs., either half-year. M W F, 3.

**9. Introduction to Differential and Integral Calculus.****Professor EDWARDS.**

3 hrs., either half-year. First half-year, M W F, 9; second half-year, M W F, 10. Prerequisite: course 5.



UPPER DIVISION COURSES

These courses are open to students in the lower division who have the necessary prerequisites.

101A-101B. Elementary Geometry for Advanced Students.

Professor HASKELL.

An historical and critical review of elementary geometry from the earliest times to the present, with particular emphasis on recent developments.

3 hrs., throughout the year. M W F, 9. Prerequisite: courses 5 and 6.

102A-102B. Elementary Algebra and Analysis for Advanced Students.

Associate Professor NOBLE.

An historical and critical account of the development of algebra and analysis from the Middle Ages to the present, with particular reference to modern points of view.

3 hrs., throughout the year. M W F, 2. Prerequisite: courses 8 and 9.

109A-109B. Differential and Integral Calculus. Advanced Course.

Associate Professor PUTNAM and Assistant Professor McDONALD.

3 hrs., throughout the year, beginning either half-year; M W F 10.

109B will be given first half-year, M W F, 9. Prerequisite: course 9.

110A. Advanced Calculus. Assistant Professor WOODS and Dr. BUCK.

The differential equations, both ordinary and partial, which occur most frequently in the applications, with special stress on approximate numerical solutions. Primarily for students of engineering.

2 hrs., first half-year. Tu Th, 8, 9.

110B. Advanced Calculus.

Dr. BUCK.

Definite integrals, multiple integrals, theory and use of infinite series, applications to practical problems. Primarily for students of engineering.

2 hrs., second half-year. Tu Th, 8.

111. Determinants and Theory of Numerical Equations.

Assistant Professor McDONALD.

3 hrs., first half-year. M W F, 3.

112. Analytic Geometry of Three Dimensions.

Associate Professor PUTNAM.

3 hrs., first half-year. M W F, 2.

\*113. Synthetic Projective Geometry Associate Professor LEHMER.

3 hrs., first half-year. M W F, 9. Prerequisite: course 6.

\* Not to be given 1917-18. Will be offered 1918-19.

114. Analytic Geometry. (Advanced Course.) Associate Professor PUTNAM.  
Introduction to modern methods in analytic geometry.  
3 hrs., second half-year. M W F, 2. Prerequisite: course 5.
115. Theory of Numbers. Dr. WRIGHT.  
Elementary properties of numbers, theory of congruences, residues of powers, primitive roots, quadratic forms.  
3 hrs., second half-year. M W F, 9.
116. Mathematical Theory of Investment. Assistant Professor WOODS.  
Intended primarily for juniors and seniors in the engineering colleges.  
2 hrs., second half-year. M W, 11. Prerequisite: course 4A-4B or its equivalent.
117. Calculus of Finite Differences. Dr. BERNSTEIN.  
2 hrs., second half-year. Tu Th, 8. Prerequisite: course 9.
- 118A-118B. Algebra of Logic. Dr. BERNSTEIN.  
3 hrs., throughout the year. M W F, 9.
119. Introduction to Differential Equations. Associate Professor NOBLE.  
3 hrs., second half-year. M W F, 3.
120. Theory of Probabilities. Dr. BERNSTEIN.  
3 hrs., first half-year. M W F, 8. Prerequisite: course 9.
- \*122. History of Mathematics. Professor HASKELL.  
2 hrs., second half-year. Tu Th, 11.
125. Higher Plane Curves. Professor HASKELL.  
3 hrs., first half-year. M W F, 10. Prerequisite: course 114. Open only to honor-students and to graduates.
- 199A-199B. Honor-conference.  
Individual weekly conferences with honor-students for their guidance in reading and research.  
Throughout the year. Hours and credit to be arranged.

## GRADUATE COURSES

- 201-202. Mathematical Seminar. Assistant Professor McDONALD.  
Advanced students will be guided in reading and research; frequent reports will be required. The particular aim of the seminar will be the training of students in independent investigation.  
Tu Th, 10, and special appointments. Credit value, 3 to 5 units each half-year, dependent on amount and quality of work done.

---

\* Not to be given, 1917-18. Will be offered 1918-19.

- \*212. Theory of Algebraic Surfaces. Associate Professor LEHMER.
- 218A-218B. Logic of Mathematics. Dr. BERNSTEIN.  
Analysis of the foundation principles of geometry and algebra.  
2 hrs., throughout the year. Tu Th, 9. Designed especially for  
teachers and prospective teachers of mathematics.
- 221A-221B. Introduction to Modern Higher Algebra. Dr. IRWIN.  
3 hrs., throughout the year. M W F, 3.
- \*222. Theory of Functions of a Real Variable. Dr. IRWIN.
223. Partial Differential Equations. Assistant Professor McDONALD.  
The important partial differential equations of applied mathematics.  
3 hrs., second half-year. M W F, 3.
- 224A-224B. Theory of Functions of a Complex Variable. Dr. BUCK.  
3 hrs., throughout the year. M W F, 2.
225. Elliptic Functions. Associate Professor NOBLE.  
3 hrs., first half-year. M W F, 3.
226. Elliptic Modular Functions. Professor HASKELL.  
3 hrs., second half-year. M W F, 10.
- \*227. Differential Geometry. Dr. BUCK.  
Application of differential and integral calculus to curves and surfaces.
231. Theory of Numbers. Associate Professor LEHMER.  
3 hrs., second half-year. M W F, 10.
- \*233. Theory of Groups. Part I. Associate Professor PUTNAM.  
Theory of groups of substitutions, with application to the theory of  
algebraic equations.  
3 hrs., first half-year. M W F, 2.
- \*234. Theory of Groups. Part II. Professor HASKELL.  
Elements of continuous groups, with application to the theory of  
differential equations.  
3 hrs., second half-year. M W F, 2.
235. Seminar in Group-theory. Professor HASKELL.  
Klein's Lectures on the Icosahedron and the equation of the fifth  
degree.  
Hours and credit to be arranged.
- \*237. Calculus of Variations. Associate Professor NOBLE.

\*Not to be given, 1917-18. Will be offered 1918-19.

## 250. Mathematical Colloquium.

Meetings for the presentation of original work by members of the staff and graduate students. Open to graduate students. No credit.

Alternate Tuesdays at 3.

## 251. Special Advanced Study and Research.

The STAFF

Hours and credit to be arranged.

## COURSES IN OTHER DEPARTMENTS

Analytic Mechanics. [See Physics 105.] Professor SLATE.

Method of Least Squares. [See Astronomy 107.] Dr. EINARSSON.

Interpolation, Use of Tables and Mechanical Quadratures. [See Astronomy 108.] Dr. EINARSSON.

Theoretical Astronomy. [See Astronomy 206.] Professor LEUSCHNER.

Descriptive Geometry. [See Drawing 3.]

Associate Professor KOWER, Assistant Professor WYTHE, and Mr. BROWER.

# MECHANICAL AND ELECTRICAL ENGINEERING

CLARENCE L. CORY, M.M.E., D.Eng., John W. Mackay, Jr. Professor of Electrical Engineering, Consulting Electric Light and Heating Engineer, and Dean of the College of Mechanics.

JOSEPH N. LECONTE, M.M.E., Professor of Engineering Mechanics.

BENEDICT F. RABER, B.S., Associate Professor of Mechanical Engineering.

WILLIAM F. MARTIN, M.C.E., Assistant Professor of Engineering Mechanics.

REUBEN S. TOUR, M.S., Assistant Professor of Gas Engineering.

HERBERT B. LANGILLE, A.B., Assistant Professor of Machine Design and Mechanical Drawing.

FRED E. PERNOT, Ph.D., Assistant Professor of Electrical Engineering.

BALDWIN M. WOODS, Ph.D., Assistant Professor of Theoretical Mechanics.

LLOYD N. ROBINSON, B.E., Instructor in Electrical Engineering.

BLAKE R. VANLEER, B.S., M.E., Instructor in Mechanical Engineering.

GEORGE L. GREVES, M.S., Instructor in Electrical Engineering.

GEORGE E. COX, Assistant in Mechanics and Foreman of Woodwork.

JAMES GEORGE, Assistant in Mechanics and Foreman of Ironwork.

*Fees.*—Laboratory deposits in this department are at the rate of \$5 a half-year for each laboratory or mechanical practice exercise a week, except that graduate students will be exempt from fees in graduate laboratory courses designated as research courses. The average amount returned to the student at the end of the half-year is about two-fifths of the deposit.

*Honors.*—Students will be recommended for honors on the basis of the work done in the regular curriculum of the senior year. Particular emphasis will be placed upon the thesis.

## MECHANICAL ENGINEERING

### LOWER DIVISION COURSES

- 1A. Elements of Steam Engineering. Assistant Professor TOUR.

Fundamental consideration of fuels, combustion, steam; boilers, furnaces, chimneys, etc.; steam engines, condensers, etc.

3 hrs., first half-year. Two sections: I, M W F, 8; II, M W F, 9.

Prerequisite: Physics 1A-1B, Chemistry 1A-1B, Mathematics 3A-3B.

- 6A. Machine Design. Assistant Professor LANGILLE.

Elementary machine design. Work at the drawing board, supplemented by lectures upon the principles underlying machine design.

6 hrs., second half-year; 3 units. Two drafting sections: I, M F, 1-4; II, Tu Th, 1-4; lecture hour to be arranged. Prerequisite: Drawing 3D.

**8A. Mechanical Practice.****Mr. Cox.**

Shop work in wood, including pattern making.

6 hrs., first half-year; 2 units. Four sections: I M F, 1-4; II, Tu Th, 9-12; III, Tu Th, 1-4; IV, W, 1-4, and S, 8-11.

**8B. Mechanical Practice.****Mr. Cox.**

Continuation of course 8A.

6 hrs., second half-year; 2 units. Four sections: I, M F, 1-4; II, Tu Th, 9-12; III, Tu Th, 1-4; IV, W, 1-4, S, 8-11.

**9A. Mechanical Practice.****Mr. GEORGE.**

Shop work in iron, including machine work.

6 hrs., first half-year; 2 units. Four sections: I, M F, 1-4; II, Tu Th, 9-12; III, Tu Th, 1-4; IV, W, 1-4, and S, 8-11. Prerequisite: course 8A or 8B.

**M Tu W Th F. 9.****9B. Mechanical Practice.****Mr. GEORGE.**

Continuation of course 9A.

6 hrs., second half-year; 2 units. Four sections: I, Tu Th, 9-12; II, Tu Th, 1-4; III, M F, 1-4; IV, W, 1-4, S, 8-11.

NOTE.—Properly qualified students in any college of the University may elect a total of one year of shop work such as course 8A, first half-year, followed by course 9A, second half-year.

**UPPER DIVISION COURSES****101A-101B. Engineering Mechanics.****Assistant Professor MARTIN.**

Problems in theoretical and applied mechanics, selected to strengthen the student's practical mathematical working power; review of fundamental mathematical theorems and formulas. Open to all students who have some working power in differential and integral calculus.

2 hrs., throughout the year. M W, 11.

**102A-102B. Engineering Mechanics.****Professor LECONTE and Assistant Professor MARTIN.**

Theoretical mechanics of engineering.

3 hrs., throughout the year. Four sections: I, M W F, 8 (mining students); II, M W F, 9 (mechanics students A-K); III, M W F, 9 (mechanics students L-Z); IV, M W F, 10 (C. E. students). Prerequisite: Mathematics 3A-3B, 4A-4B, or 9 and 109.

103A. Hydraulics.

Professor LECONTE.

The principles of hydraulics with special reference to their application in the development of power.

3 hrs., first half-year. M W F, 8. Prerequisite: course 102A-102B, or Physics 105A-105B.

103B. Hydraulic Machinery.

Professor LECONTE.

Discussion of the theory underlying the design of hydraulic motors, pumps, and other apparatus operated through the agency of water.

3 hrs., second half-year. M W F, 8. Prerequisite: course 102A-102B, or Physics 105A-105B, and course 103A, or Civil Engineering 110.

103C-103D. Elementary and Practical Course in Hydraulics.

Mr. VANLEER.

Practical problems upon cost of piping, well digging, selection of pumping machinery and central station pumping plants, wind-mills, etc. Reports upon visits to hydraulic installations; oral and written abstracts of engineering papers. Recitations.

2 hrs., throughout the year. Tu Th, 11. The class will be limited to 15. Course 102A-102B must precede or accompany this course.

104A-104B. Kinematics.

Assistant Professor WOODS.

*Theoretical:* Motion without reference to the cause which produces it; pure mechanism or the mutual dependence of the movements in the parts of a machine. *Applied:* Application of the preceding to the various kinematic problems connected with machine design and construction, such as link-motion, transmission by rolling and sliding contact, teeth of wheels, cams, form and proportions of the steam-engine and other motors.

2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 102A-102B, or Physics 105A-105B.

104C-104D. Kinematics.

Assistant Professor LANGILLE.

Drafting and designing; to be taken only in conjunction with course 104A-104B.

3 hrs., throughout the year; 1 unit each half-year. W, 1-4.

105A. Thermodynamics.

Associate Professor RABER.

Relations between heat and mechanical energy. Thermal properties of perfect gases, saturated vapors, and superheated vapors.

3 hrs., first half-year. M W F, 10. Prerequisite: course 102A-102B, or Physics 105A-105B.

105B. Heat Engines: Testing, Construction, and Operation.

Associate Professor RABER.

Analysis of the cycles of steam, gas, oil, and air engines, and of refrigerating machinery, by means of the pressure, volume, and temperature; entropy diagrams. The effects of compounding, packing, reheating, and superheating. Steam boilers, gas engines, gas producers, air compressors, and steam turbines. Methods of testing. Engine and boiler accessories.

3 hrs., second half-year. M W F, 10. Prerequisite: course 105A.

**106B. Machine Design.****Assistant Professor LANGILLE.**

Continuation of course 6A. Design of machine parts and finally of a typical machine suitable for illustrating the general principles of engineering design.

6 hrs., first half-year; 2 units. Two sections: I, M F, 1-4; II, Tu Th, 1-4. Prerequisite: course 6A.

**106C. Advanced Machine Design.****Assistant Professor LANGILLE.**

A continuation of course 106B, and involving the complete design of a steam engine, air compressor or similar mechanism. Open as an elective course to students who have completed courses 6A and 106B.

6 hrs., second half-year; 2 units. M F, 1-4, or Tu Th, 1-4. Completion of courses 102A-102B, 104A-104B, 104C-104D is particularly desirable as a preparation for this course. Courses 104A and 104C may be taken concurrently.

**107A-107B. Hydraulic Laboratory: Experimental Engineering.****Mr. VANLEER.**

The general principles of hydraulics, including methods of measuring water, calibration of instruments, meters and weirs; tests of pumps, turbines and water wheels.

3 hrs., throughout the year; 1 unit each half-year. Two sections: I, Tu, 1-4; II, Th, 1-4. Prerequisite: courses 103A, 103B, or 103C-103D or Civil Engineering 110, or may be taken concurrently with one of these courses.

**107C-107D. Mechanical Laboratory: Experimental Engineering.****Assistant Professor TOUR.**

Calibration of instruments and auxiliary apparatus used in testing. Tests of steam engine, steam pump, gas engine, air compressor, boiler, etc. Steam calorimetry. Fuel testing.

3 hrs., throughout the year; 1 unit each half-year. Two sections: I, Tu, 1-4; II, Th, 1-4. Prerequisite: course 1A; should be taken in conjunction with courses 105A, 105B.

**108B. Internal Combustion Engines.****Assistant Professor TOUR.**

Theoretical consideration of various cycles. Comparison and application of the Diesel and Otto cycle. Operation of internal combustion engines and their accessories.

2 hrs., second half-year. Tu Th, 9. Prerequisite: courses 1A and 105A.

**109B. Steam Power Plant Design.****Associate Professor RABER.**

The design of a complete steam power plant and the formulation of specifications therefor.

2 hrs., second half-year, to be arranged. Prerequisite: course 1A.



114. Thesis.

The STAFF.

For the regulations governing thesis work see the Circular of Information, Academic Departments. Candidates for B.S. who elect their thesis work in the department of mechanical and electrical engineering will register, during both half-years of the last or senior year, for course 114. Candidates who elect their thesis work in another department will register according to the announcement of that department.

2 units, either half-year.

125b. Fuel Testing.

Assistant Professor TOUR.

Physical tests, analyses and calorimetry of gaseous, liquid and solid fuels. Combustion and deductions from fuel tests in conjunction with tests of the products of combustion. May be taken without 125d. Lectures.

1 hr., second half-year, to be arranged. Prerequisite: course 1A.

125d. Fuel Testing. Laboratory.

Assistant Professor TOUR.

Course to accompany 125b, which latter must be taken in conjunction with this course.

3 hrs., second half-year; 1 unit. Prerequisite: course 1A.

126a. Steam Turbines.

Associate Professor RABER.

Rotative heat power engines, and their auxiliaries; design of steam nozzles, of blading, and of governor details. Turbine operation illustrated by inspection trips to typical plants. Open to seniors and graduate students.

2 hrs., second half-year, to be arranged. Prerequisite: course 1A, and must be taken concurrently with course 105b.

GRADUATE COURSES

215A-215B. Advanced Problems in Engineering Mechanics and Hydraulics.

Professor LECONTE.

1 hr., throughout the year, to be arranged.

219. Mechanical Engineering: Research Laboratory.

Associate Professor RABER and Assistant Professor TOUR.

First half-year. Hours to be arranged. Prerequisite: courses 105A, 105B, and 107C-107D.

220. Gas Power Engineering.

Associate Professor RABER.

The theory and design of gas, gasoline and oil engines; gas producer practice; the combustion of gaseous fuels.

3 hrs., second half-year, to be arranged. Prerequisite: courses 1A, 105A, and 105B; or the latter may be taken concurrently.

221. Aerodynamics.

Assistant Professor WOODS.

The principles of motion in a fluid as applied to the aeroplane, and to the design of its fundamental parts.

2 hrs., first half-year, to be arranged. Prerequisite: course 102, Mathematics 110.

**ELECTRICAL ENGINEERING****LOWER DIVISION COURSE****1B. Elements of Electrical Engineering. Assistant Professor PERNOT.**

Open to sophomores in the engineering colleges, especially those who have had Mathematics 3A-3B and Physics 2c.

3 hrs., second half-year. Two sections: I, M W F, 8; II, M W F, 9.

**UPPER DIVISION COURSES****100A. Direct Current Machinery. Mr. GREVES.**

Theory, operating characteristics and uses of direct current machinery and equipment. For engineering students not registered in the College of Mechanics.

3 hrs., first half-year. Tu Th, 9; F, 1. Prerequisite: Mathematics 3A-3B, Physics 2C-2D.

**100B. Alternating Current Machinery. Mr. GREVES.**

A continuation of course 100A. Theory, operating characteristics and uses of alternating current machinery and equipment. For engineering students not registered in the College of Mechanics.

2 hrs., second half-year. Tu Th, 9. Prerequisite: course 100A.

**100C. Electrical Laboratory: Direct Current Machinery. Mr. GREVES.**

3 hrs., first half-year; 1 unit. W, 2-5. Course 100A must be taken concurrently.

**100D. Electrical Laboratory: Alternating Current Machinery.**

Mr. GREVES.

3 hrs., second half-year; 1 unit. Th, 1-4. Course 100B must be taken concurrently.

**110A-110B. Electrical Machinery and Construction. Professor CORY.**

The construction and operation of electrical machinery, and its application to electric lighting and power distribution.

2 hrs., throughout the year. Tu Th, 11. Prerequisite: course 1B, Mathematics 4A-4B and Physics 2C-2D.

**110C. Electrical Machinery and Construction: Laboratory.**

Assistant Professor PERNOT and Mr. ROBINSON.

3 hrs., second half-year; 1 unit. Course 110B must be taken concurrently. Three sections: I, W, 1-4; II, F, 1-4; III, S, 8-11.

**111A-111B. Alternating Currents and Alternating Current Machinery.**

Professor COBY.

The theory of the generation of single-phase and poly-phase alternating currents, the use of the complex quantity, and the calculation of the regulation and behavior of alternating current apparatus and transmission lines. The theory of the single-phase and poly-phase induction motor, synchronous motor, and rotary converter, and their effects and operation in transmission systems.

4 hrs., throughout the year. Tu Th, 9-11. Prerequisite: courses 110A-110B and 110C; Mechanics 102A-102B or Physics 105A-105B; Physics 107A-107B.

**111C-111D. Alternating Currents and Alternating Current Machinery: Laboratory.**

Mr. ROBINSON and Mr. GREVES.

6 hrs., throughout the year; 3 units each half-year. Two sections: I, M, 1-7; II, Tu, 1-7. Prerequisite: course 110A-110B and 110C and Mechanics 102A-102B, or Physics 105A-105B and Physics 107A-107B.

**114. Thesis.**

The STAFF.

For the regulations governing thesis work see the Circular of Information, Academic Departments. Candidates for B.S. who elect their thesis work in the department of mechanical and electrical engineering will register, during both half-years of the last or senior year, for course 114. Candidates who elect their thesis work in another department will register according to the announcement of that department.

2 units, either half-year.

**119A-119B. Elements of Electrical Design. Assistant Professor PERNOT.**

Theoretical principles underlying the construction and operation of electrical apparatus; application of principles to practical design and the general problems connected with direct current and alternating current machinery.

3 hrs., throughout the year; 2 units each half-year. F, 1-4. Prerequisite: courses 1B and 110A-110B.

**122A-122B. Special Problems in Electrical Engineering.**

The STAFF.

Throughout the year. Hours to be arranged.

## GRADUATE COURSES

Graduate students who wish to engage in advanced work in hydraulics, thermodynamics, experimental engineering, electrical engineering, or related subjects will be admitted to any of the courses offered, on giving evidence that they possess the fundamental knowledge which will enable them to profit by the instruction. They will also be given all possible assistance outside the lecture room in pursuit of advanced study and original investigation. A well equipped building is devoted to the work of these branches of engineering.

## 212A. Advanced Theoretical Electrical Engineering.

Assistant Professor PERNOT.

Lectures on selected subjects of an advanced technical nature. Open to seniors and graduate students.

2 hrs., first half-year. M W, 11.

## 212c. Electrical Engineering: Research Laboratory.

The STAFF.

First half-year. Hours to be arranged.

## 214. Electrical Traction.

Mr. ROBINSON.

The application of electric motive power to railways. Motor equipments, speed-time curves, and schedules; economics of location and equipment. Open to senior and graduate students in electrical engineering.

3 hrs., first half-year; 3 units. M W F, 9.

## 216. Power Plant Engineering.

Mr. ROBINSON.

Investigation of electric generating and sub-stations, high tension transmission and low tension distribution, preliminary engineering, economic location, and operation, including load curves and other controlling considerations.

2 hrs., second half-year; 2 units. Open to seniors and graduates who are taking or have taken the equivalent of Mechanics 103A, 103B, 105A, 105B, 110A-110B.

## 217. Electrical Oscillations, Line Surges, and Transmission Line Phenomena. Radio-Telegraphy.

Assistant Professor PERNOT.

Open to seniors and graduate students. Lectures.

2 hrs., second half-year. M W, 11.

## **GAS ENGINEERING**

### **UPPER DIVISION COURSES**

- 117B. Gas Engineering.** Assistant Professor TOUR.  
Methods and processes used in the manufacture of illuminating gas, including coal gas, carburetted water gas, and oil gas; construction and operation of gas manufacturing plants. Supplementary lectures on alternate Fridays by gas engineers of the Pacific Coast.  
3 hrs., second half-year; 2 units. M W alt F, 11. Prerequisite: Mechanics 1A, course 118A-118B, or Chemistry 126, 111.
- 118A-118B. Gas Engineering Laboratory.** Assistant Professor TOUR.  
Analysis of illuminating gas. The calorific value of solid, liquid, and gaseous fuels. The determination of specific gravity. Photometry of gas illumination.  
3 hrs., throughout the year; 1 unit each half-year. Hours to be arranged. Prerequisite: Chemistry 5 or equivalent.
- 120. Gas Engineering Laboratory.** Assistant Professor TOUR.  
Incidental tests such as for naphthalene, free carbon in tars, sulphur in purifying material, distillation of oil, etc.  
3 hrs., first half-year; 1 unit. Hours to be arranged. Prerequisite: courses 117 and 118.

### **GRADUATE COURSE**

- 218. Gas Engineering: Research Laboratory.**  
Associate Professor RABER and Assistant Professor TOUR.  
First half-year. Hours to be arranged. Prerequisite: courses 117 and 118.

**MEDICAL SCHOOL**

At present the instruction of the first one and one-half years of the medical course is given in Berkeley. The first year of this work may also be counted towards the bachelor's degree in the College of Letters and Science for those who have attained senior standing. See departments of anatomy, biochemistry and pharmacology, physiology, and pathology and bacteriology. For further information reference should be made to the special announcement of the Medical School.

**MILITARY SCIENCE AND TACTICS**

JOHN T. NANCE, Major, U. S. Army, Retired, Graduate U. S. Military Academy, Professor of Military Science and Tactics.

TRUMAN D. THORPE, First Lieutenant, U. S. Army, Retired, Graduate U. S. Military Academy, Assistant Professor of Military Science and Tactics.

\*GEORGE E. DICKIE, B.L., Instructor in Military Science and Tactics.

The courses in military training are those prescribed by the War Department for infantry units of the reserve officers' training corps. The United States furnishes arms, equipments, and uniforms for students belonging to such units.

The primary object of establishing units of the reserve officers' training corps is to qualify, by systematic and standard methods of training, students at civil educational institutions for reserve officers. The system of instruction prescribed presents to these students a standardized measure of that military training which is necessary in order to prepare them to perform intelligently the duties of commissioned officers in the military forces of the United States, and it enables them to be thus trained with the least practicable interference with their civil careers. It should be the aim of every educational institution to maintain one or more units of the reserve officers' training corps in order that in time of national emergency there may be a sufficient number of educated men, trained in military science and tactics, to officer and lead intelligently the units of the large armies upon which the safety of the country will depend. The extent to which this object is accomplished will be the measure of the success of the reserve officers' training corps.

The course of training provides that the cadet officers and non-commissioned officers participate in the administration and training and share the responsibility therefor. The course is designed to train leaders of platoons in infantry companies. The platoon cannot be considered apart from larger units of which it forms a part. Intelligent teamwork depends on the leaders of smaller tactical units understanding the working of the larger units of their own arm, alone or in combination with other arms. The student upon graduation should know what is required of a platoon from the point of view of the company commander, and understand clearly the interior economy of a company. He should know what is demanded of the soldier as an individual, and he should have some idea of the tactical handling of a battalion, of which his company is a smaller unit.

The courses are divided into two groups, the lower division or basic courses and the upper division or advanced courses.

---

\* In residence second half-year only, 1917-18.

**LOWER DIVISION COURSES**

The lower division or basic courses are prescribed for all able-bodied male undergraduates who are citizens of the United States, and under twenty-four years of age at admission to the University as students. A first-year or second-year student claiming exemption because of physical disability, non-citizenship or age will present to the Department of Military Science and Tactics a petition, on the prescribed form, for such exemption. Pending action on his petition the student will enroll in the courses prescribed for his year and enter upon the work of such courses.

**1A. Military Art (Practical).**

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Physical drill, infantry drill, care of rifle and equipment, rifle firing.

2 hrs., and, for each student, one afternoon period (to be announced) for gallery practice, either half-year;  $\frac{1}{2}$  unit. M W, 11.

**1B. Military Art (Theoretical).**

Assistant Professor THORPE and Cadet Officers.

Recitations and conferences on infantry drill regulations (to include the school of the company), military organization, firing manual, personal hygiene, camp sanitation, military policy.

1 hr., either half-year; 1 unit. W, 4.

**2A. Military Art (Practical).**

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Physical drill, infantry drill, care of rifle and equipment, rifle firing, intrenchment, first-aid.

2 hrs., and, for each student, one Saturday (to be announced) for target practice, either half-year;  $\frac{1}{2}$  unit. M W, 11.

**2B. Military Art (Theoretical).**

Assistant Professor THORPE and Cadet Officers.

Recitations and conferences on map reading, service of security, service of information, combat.

1 hr., either half-year; 1 unit. W, 4.

**3A. Military Art (Practical).**

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Physical drill, infantry drill, care of rifle and equipment, rifle firing, intrenchment, first-aid.

2 hrs., and, for each student, one Saturday (to be announced) for target practice, either half-year;  $\frac{1}{2}$  unit. M W, 11.



**3B. Military Art (Theoretical). Professor NANCE and Cadet Officers.**

Recitations and conferences on infantry drill regulations (school of the battalion and combat), firing manual, camp sanitation and camping expedients, map reading, military policy.

1 hr., either half-year; 1 unit. W, 4.

**4A. Military Art (Practical).**

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Physical drill, infantry drill, care of rifle and equipment, rifle firing, intrenchment, first-aid, signaling, sand-table work.

2 hrs., and, for each student, one Saturday (to be announced) for target practice;  $\frac{1}{2}$  unit. M W, 11.

**4B. Military Art (Theoretical). Professor NANCE and Cadet Officers.**

Recitations or conferences on service of security, service of information, marches, camps, military history; solution of map problems in minor tactics.

1 hr., either half-year; 1 unit. W, 4.

**UPPER DIVISION COURSES**

The upper division or advanced courses are prescribed for such third-year and fourth-year students as have completed the basic courses and elect to continue their military training and who are appointed officers or non-commissioned officers of University Cadets.

Any member of the senior division (of the Reserve Officers' Training Corps) who has completed two academic years of service in that division, who has been selected for further military training by the president of the institution and the professor of military science and tactics, and who executes the following written agreement, will be entitled, while not subsisted in kind, to the commutation of subsistence fixed by the Secretary of War in accordance with law:

....., 191....  
In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers' Training Corps during the remainder of my course in ..... (Institution) ..... to devote five hours per week during such period to the military training prescribed, and to pursue the courses of camp training during such period, prescribed by the Secretary of War.

Witness: .....

The training camps referred to in the preceding paragraph are the two to be held during the summer vacation periods, following the student's third-year and fourth-year service in the unit. The United States furnishes field uniforms, transportation and subsistence for students attending the training camps.

The captains, lieutenants and sergeants and, so far as practicable, the corporals of University Cadets will be appointed from members of the junior and senior classes. It is desired to give the student entering the advanced course training in a responsible position.

Students desiring to take military training as their major subject should consult the Department at the beginning of their junior year.

### *Third Year*

#### 105A. Military Art (Practical).

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Practice in duties of sergeants and corporals in infantry and physical drills, and exercises in rifle firing, first-aid, signaling, intrenchment and sand-table work in connection with courses 1A, 2A, 3A, and 4A. Practice in military sketching.

3 hrs. (2 hrs., and 4 half-day periods), either half-year; 1 unit. M W, 11; and Th, 1-5, fourth-seventh weeks.

#### 105B. Military Art (Theoretical).

Assistant Professor THORPE.

Conferences, study and solution of map problems and map maneuvers; exercises in company administration; conferences on military history.

2 hrs. (1 hr., and 5 three-hour periods), first half-year; 2 units. Th, 3; and Th, 1-4, eighth-twelfth weeks.

#### 106A. Military Art (Practical).

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Continuation of course 105A.

3 hrs. (2 hrs., and 4 half-day periods), either half-year; 1 unit. M W, 11; and Th, 1-5, fourth-seventh weeks.

#### 106B. Military Art (Theoretical).

Assistant Professor THORPE.

Conferences on minor tactics, international law, property accountability, and method of obtaining supplies and equipment; map problems; map maneuvers.

2 hrs. (1 hr. and 5 three-hour periods), second half-year; 2 units. Th, 3; and Th, 1-4, eighth-twelfth weeks.

### *Fourth Year*

#### 107A. Military Art (Practical).

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Practice in duties of captains, lieutenants and sergeants in infantry and physical drills, and exercises in rifle firing, first-aid, signaling, intrenchment and sand-table work in connection with courses 1A, 2A, 3A, and 4A. Practice in military sketching.

3 hrs. (2 hrs. and 4 half-day periods), either half-year; 1 unit. M W, 11; and Tu, 1-5, fourth-seventh weeks.

107B. Military Art (Theoretical).

Professor NANCE and Assistant Professor THORPE.

Conferences on court-martial proceedings; international relations of America; growth of principles of international law embodied in American diplomacy, legislation and treaties; psychology of war; general principles of strategy. Study and solution of map problems involving tactical handling of small forces, all arms combined. Map maneuvers.

1 hr., first half-year; 1 unit. Tu, 3, eighth-eleventh weeks; Tu, 1-4, twelfth-fifteenth weeks.

107C. Military Art (Teaching).

Assistant Professor THORPE and Assistants.

Practice in teaching courses 1B, 2B, or 3B, 4B.

1 hr., first half-year; 1 unit. W, 4.

108A. Military Art (Practical).

Professor NANCE, Assistant Professor THORPE, Mr. DICKIE, and Assistants.

Continuation of course 107A.

3 hrs. (2 hrs. and 4 half-day periods), either half-year; 1 unit. M W, 11; and Tu, 1-5, fourth-seventh weeks.

108B. Military Art (Theoretical).

Professor NANCE and Assistant Professor THORPE.

Lectures and conferences on military history and policy; rifle in war; solution of map problems; map maneuvers.

1 hr., second half-year; 1 unit. Tu, 3, eighth-eleventh weeks; Tu, 1-4, twelfth-fifteenth weeks.

108C. Military Art (Teaching).

Assistant Professor THORPE and Assistants.

Practice in teaching courses 1B, 2B, or 3B, 4B.

1 hr., second half-year; 1 unit. W, 4.

**MINING AND METALLURGY**

ANDREW C. LAWSON, Ph.D., Professor of Mineralogy and Geology, and  
Dean of the College of Mining.

FRANK H. PROBERT, A.R.S.M., Professor of Mining.

WALTER S. WEEKS, A.B., B.S., M.E., Associate Professor of Mining.

ERNEST A. HERSAM, B.S., Associate Professor of Metallurgy.

WALTER S. MORLEY, B.S., Assistant Professor of Metallurgy.

LESTER C. UREN, B.S., Assistant Professor of Mining.

*Honors.*—Students will be recommended for honors at graduation on the basis of the quality of work done in the regular curriculum of the senior year. Particular emphasis will be placed upon student's capacity for original work.

*Vacation Work.*—All students are required to work eight weeks, prior to senior standing, in a mine, mill, smelter, or oil field, of which two weeks shall be spent in collecting data for a report to be submitted to the Mining Department. Two units of credit will be given for this report.

For the regulations governing thesis work, see Circular of Information, Academic Departments. Candidates for B.S. in mining, metallurgical or petroleum engineering may, with the approval of the study-lists committee, submit a thesis based on field studies.

---

**MINING**

There are no laboratory fees in this department.

**LOWER DIVISION COURSES****1A. Mine Surveying and Mapping.**

Associate Professor WEEKS and Assistant Professor UREN.

Surface and underground mine surveys; methods of traversing and collecting details. Preparation of mine maps from survey data, and methods of representing geological and other features on mine maps. Lectures, field and drafting-room practice.

9 hrs., first half-year; 3 units. Tu Th, 9-12; W, 1-4. Prerequisite: Civil Engineering 1A-1B, 3.

**1B. Mine Mapping.**

Assistant Professor UREN.

Continuation of course 1. Graphic records of engineering data; stopping charts, sampling diagrams, and bore-hole logs. Use of special instruments. An intimate study of the several types of mine models.

3 hrs., second half-year; 1 unit. W, 1-4. Prerequisite: course 1.

**5. Engineering Drawing.**

Assistant Professor UREN.

Drafting-room practice, supplemented by occasional lectures, designed to meet the needs of mining students. Lettering; orthographic projection; preparation of working drawings, metallurgical flow sheets and geological sections; graphical methods of representing engineering data; copying processes.

6 hrs., second half-year; 2 units. M F, 1-4.

**UPPER DIVISION COURSES****101A. Mine Development.**

Professor PROBERT.

Preliminary development, prospect and assessment work; choice of permanent entry; shaft sinking, tunneling, underground exploration. Elements of supports for mine excavations.

3 hrs., first half-year. M W F, 9. Prerequisite: course 103; Mechanics 102A-102B or Physics 105A-105B.

**101B. Mining Methods.**

Professor PROBERT.

Discussion of factors influencing choice of method. Modern practice in exploitation of veins and massive deposits.

2 hrs., second half-year. M W, 9. Prerequisite: course 101A.

**103. Exploration and Surface Mining.**

Associate Professor WEEKS.

Lectures on open-pit and placer mining, churn and diamond drilling, use of explosives and breaking of ground. Laboratory instruction in types of rock drills, sharpening steel, panning, and magnetic surveying.

5 hrs., second half-year; 3 units. Laboratory, Tu, 1-4; lectures, M W, 10. Prerequisite: Geology 1A, Mineralogy 1A, 1B.

**105. Mine Equipment.**

Associate Professor WEEKS.

General discussion of power and mine equipment; transportation; hoisting, pumping, ventilating, and lighting.

3 hrs., second half-year. Tu Th F, 9. Prerequisite: course 101A, Mechanics 1A, 102A-102B, Electrical Engineering 100AB-100CB, Civil Engineering 108A. Course 111B to be taken concurrently.

**107. Economics of Mining.**

Professor PROBERT.

The economic operation of a mine; mining company incorporation and organization; mining investments; capital in mining; labor in mining; mine taxation; conservation of mineral resources; marketing ores and metals; production and consumption of metals; relation of the mining industry to other industries.

2 hrs., first half-year M W, 10. Course 101A to be taken concurrently.

**109. Mine Cost-Accounting.**

Assistant Professor UREN.

Lectures on mine accounting and cost-keeping from an engineering standpoint. Payment of workmen; purchase and distribution of mine supplies; production records; administrative reports; methods of filing and preparing engineering and statistical data.

2 hrs., second half-year. Tu Th, 8. To be taken concurrently with course 101B.

- 111A. Mining Machinery: Compressed Air. Associate Professor WEEKS.  
Lectures, computations and laboratory. The compression of air and use of compressed air for mining purposes.  
6 hrs., first half-year; 3 units. M Tu, 1-4. Prerequisite: Mechanics 1A, Electrical Engineering 100AB-100CD.
- 111B. Mining Machinery and Supplies. Associate Professor WEEKS.  
Lectures, computations and laboratory. Power, mine ventilation, pumping, lighting, signalling, explosives, etc.  
6 hrs., second half-year; 3 units. M W, 1-4. Prerequisite: course 111A; course 105 to be taken concurrently.
117. Thesis. (See general statement concerning required vacation work, above.)  
In special cases a student may, with the approval of the study-lists committee, submit as a thesis a piece of work in any department in which he is qualified to pursue advanced studies.  
2 units, either half-year.  
NOTE.—Mining law is given in the Department of Jurisprudence (see Jurisprudence 216).
- A course in mining hygiene (Hygiene 8), including first aid, mine sanitation, and rescue work is given by the Department of Hygiene, and is required of mining students.

#### GRADUATE COURSES

201. Research in Mining Practice. Associate Professor WEEKS.  
First half-year; hours and credit to be arranged. Prerequisite: courses 101A, 101B, 105 and 111A, 111B.
- 203A-203B. Seminar in Mining. Professor PROBERT.  
Discussion of current mining literature and problems.  
1 hr., throughout the year. M, 4. Prerequisite: senior standing in the College of Mining.
205. Mine Valuation. Professor PROBERT.  
Lectures on the examination, sampling and valuation of mines.  
2 hrs., second half-year. M W, 11. Prerequisite: courses 101A, 101B, and 105. Open also to properly qualified seniors who are taking courses 101B and 105.

**PETROLEUM ENGINEERING**

**UPPER DIVISION COURSES**

115. **Methods of Producing Petroleum.** Assistant Professor UREN.  
Prospecting for oil. Drilling and controlling oil wells. Methods of extracting oil and gas from wells.  
2 hrs., first half-year. Tu Th, 11. Prerequisite: senior standing in any engineering college.
119. **Preliminary Refining, Transporting and Storing of Petroleum.** Assistant Professor UREN.  
Methods of separating sand, water, and gas from oil. Pipe-lines, tank-cars and steamers; reservoirs and tanks. Selling methods and control of prices and production. Economics of the oil industry. Valuation of oil lands. Lectures.  
2 hrs., second half-year. Tu Th, 11. Prerequisite: senior standing in any engineering college.
123. **Petroleum Engineering Laboratory.** Assistant Professor UREN.  
Investigation of special problems in the production, transportation and storage of petroleum. Practice in gauging and testing petroleum.  
6 hrs., first half-year; 2 units. Th F, 1-4. Prerequisite: Mechanics 1A, Electrical Engineering 100AB-100CD. Course 115 to be taken concurrently.
125. **Petroleum Cost-Accounting.** Assistant Professor UREN.  
Oil field cost-keeping and accounting methods. Payment of workmen; purchase and distribution of supplies; production records and administrative reports.  
1 hr., first half-year. F, 10. To be taken only in conjunction with course 115.
127. **Utilization of Petroleum and its Products.** Assistant Professor UREN.  
Use of petroleum and its derivatives as fuels; mineral oil lubricants, their characteristics and uses; refined distillates and their uses in furnishing light and heat; asphalt and its uses in paving and structural work; the mineral waxes and their uses. Lectures.  
1 hr., first half-year. M, 11. Prerequisite: junior standing in an engineering college.
129. **Production and Utilization of Natural Gas.** Assistant Professor UREN.  
Control and management of gas wells; separation of gas from oil; transportation and storing natural gas; utilization of natural gas in developing light, heat, and power; separating gasoline from natural gas.  
1 hr., second half-year. F, 9. Prerequisite: course 115.
131. **Thesis or Summer Work.** (See general statement concerning required vacation work, above.)  
2 units, either half-year.

**METALLURGY**

**Laboratory Fees.**—Laboratory fees are \$15 per half-year in each of the laboratory courses 2, 104A, 104B, 110A, 110B, and 114. At the end of the half-year any unconsumed balance is returned to the student after deducting the cost of materials actually used and the breakage of apparatus.

**LOWER DIVISION COURSE**

2. Wet Assaying. Assistant Professor MORLEY.  
The principles and practice of wet assaying and volumetric analysis, applied to the products of mine, mill, and smelter.  
7 hrs., second half-year; 3 units. M, 10; Tu Th, 1-4. Prerequisite: Chemistry 1A-1B.

**UPPER DIVISION COURSES**

102. General Metallurgy. Associate Professor HERSAM.  
The study of ores from a metallurgical standpoint. Sorting, concentrating, handling, sampling, and valuing ores and ore products; slags, fluxes and refractory materials. Metallurgical practices and the outline of standard processes of treatment.  
2 hrs., first half-year. Tu Th, 8. Prerequisite: course 2, or Chemistry 5 or 6A, Physics 1AB, 2CD, Mineralogy 1A, 1B.
- 104A. Fire Assaying. Assistant Professor MORLEY.  
Lectures and laboratory practice. The proper use and care of the balance. Cupellation and parting of gold and silver. Preparation of ore samples. Scorification and crucible assays of gold and silver ores.  
7 hrs., first half-year; 3 units. M, 11, and M Tu, 1-4. Prerequisite: course 2, and Mineralogy 1A, 1B.
- 104B. Advanced Assaying. Assistant Professor MORLEY.  
Lectures and laboratory practice in the assay of precious and base metal ores. Melting, refining and sampling of gold and silver bullion. The assay of alluvials for gold, silver, platinum and tin. Smelting practice and analysis of products.  
6 hrs., second half-year; 2 units. M F, 1-4. Prerequisite: course 104A.
106. Metallurgy of Iron and Steel. Associate Professor HERSAM.  
The ores of iron and the methods of their reduction. The production of pig iron, wrought iron, and the various grades of steel. The physical properties of structural iron and steel as related to chemical composition and metallurgical treatment.  
2 hrs., second half-year. Tu Th, 10.



- 108A. Ore-Dressing. Associate Professor **HERSAM**.  
The mechanical treatment of ores; the leading practices relating to crushing, sizing, classification, amalgamation, flotation and the various processes of concentration; theory of mechanical separation; principles underlying the possibilities of ore separation.  
2 hrs., first half-year. Tu Th, 10. Prerequisite: courses 102 and 104A.
- 108B. The Metallurgy of Gold and Silver. Associate Professor **HERSAM**.  
Lectures on the milling and amalgamation of gold and silver ores. The cyanide and other processes of extracting precious metals. Roasting and chlorination. A detailed study of existing plants.  
2 hrs., second half-year. Tu Th, 11. Prerequisite: course 108A.
- 110A. Ore-Dressing Laboratory. Associate Professor **HERSAM**.  
The operations of ore-dressing. Practice in crushing, sampling, and concentrating the ores of gold, silver, and the base metals. Experimentation on a working scale.  
6 hrs., first half-year; 2 units. Th F, 1-4. Prerequisite: course 102. Supplementary to course 108A.
- 110B. Metallurgical Laboratory. Associate Professor **HERSAM**.  
Experiments in amalgamation, flotation and hydro-metallurgy of precious and base metal ores.  
6 hrs., second half-year; 2 units. Th F, 1-4. Prerequisite: course 110A. Supplementary to course 108B.
112. Metallurgy of Lead and Copper. Assistant Professor **MORLEY**.  
Methods of smelting lead and copper ores with particular reference to the gold and silver content. A study of furnaces and the principles in their construction.  
2 hrs., first half-year. Tu Th, 11. Prerequisite: course 102.
116. Metallography. Assistant Professor **MORLEY**.  
The microscopic structure of metals and alloys as related to their physical and chemical properties, with special attention to iron and steel. Practice in the use of the microscope as applied to the examination of polished and etched metallic surfaces. Instruction in photo-micrography. Lectures and laboratory.  
4 hrs., either half-year; 2 units. W, 11 and 1-4. Prerequisite: course 106.
118. Theses. (See general statement concerning required vacation work, above.)  
In special cases a student may, with the approval of the study-lists committee, submit as a thesis a piece of work in any department in which he is qualified to pursue advanced studies.  
2 units, either half-year.

## GRADUATE COURSES

The foregoing undergraduate courses are open to graduate students whose previous preparation has fitted them to undertake the work.

## 202. The Metallurgy of the Less Common Metals.

Associate Professor HERSAM.

The metallurgical treatment of the ores of tin, zinc, antimony, arsenic, mercury, aluminum, and the platinum metals, including methods of reduction and refining these metals.

2 hrs., first half-year, to be arranged. Prerequisite: course 112.

## 210A-210B. Special Investigation in the Treatment of Ores.

Associate Professor HERSAM.

Programme of work to be arranged in each case.

Throughout the year. Prerequisite: course 110B.

## 216. Metallography.

Assistant Professor MORLEY.

An extended study of the structure of iron and steel, including thermal analysis. The metallographic examination of the industrial alloys.

4 hrs., second half-year; 2 units. Th, 1-5. Prerequisite: course 116.

## MUSIC

CHARLES L. SEEGER, Jr., A.B., Professor of Music.

EDWARD G. STRICKLEN, Instructor in Music.

— — —, Lecturer in Voice Culture.

PAUL STEINDORFF, Choragus.

Students who plan to specialize in music should confer with the head of the department at the beginning of the freshman year, in order to ensure the fulfillment of the prerequisites in the lower division (courses 4A-4B and 5A-5B or their equivalent—theoretical knowledge and practical skill in the handling of elementary diatonic and chromatic harmony and strict counterpoint in five parts). The major courses are: In composition, 104A-104B and 105A-105B; in performance, 109A-109B (in special cases one half of course 101A-101B or 102 may be taken in place of course 109B); in Musicology 111A-111B and 112A-112B. (These courses are given in alternate years.)

*Honor-students in the Upper Division.*—Students in the honor-group who have completed the major in music with distinction may receive honors in music at graduation by showing ability to do original work either in composition or in a thesis upon a musicological subject. Honor-students will be allowed special privileges in the use of the library and the music building.

*Five-hour Courses.*—The schedule contemplates the combination of certain two and three-hour courses of complementary character in a five-hour series, with the following plans of enrollment: AB-17, AB-1, 10A-6A, 5A-6A, 101A-109A.

## LOWER DIVISION COURSE

## FREE ELECTIVE FOR STUDENTS OF ANY YEAR

17. Introduction to the Literature of Music. Professor SEEGER.

Opportunity is offered for hearing many great works. No previous musical knowledge is required.

2 hrs., first half-year; 1 unit. Tu Th, 1.

*Composition*

*Notice to All Students.*—Ear-training, practice in sight singing and in dictation will be given as part of the regular work in courses AB, 4A, 4B, and 10A. Students in all courses (course 17 alone excepted) may, without preliminary notice, be examined in regard to their abilities in this respect by the department and required to attend course D until a satisfactory test has been passed.

**LOWER DIVISION COURSES**

**AB. Symbols and Terminology of Musical Notation and Elementary Harmony and Counterpoint.** Mr. STRICKLEN.

Equivalent to matriculation subjects 21a and 21b.

3 hrs., either half-year; 3 units. First half-year, M W F, 1; second half-year, M W F, 2. Students whose work is of marked excellence may be admitted to course 4B in the following half-year.

**D. Ear Training.**

The STAFF.

1 hr., either half-year. No credit. Sections to be arranged.

**4A-4B. Diatonic Harmony and Two-part Strict Counterpoint.** (First-year Course.) Mr. STRICKLEN.

Treatment of the complete diatonic resources of the major and minor modes, including the simpler modulations. The contrapuntal studies are undertaken concurrently with the work in harmony.

3 hrs., throughout the year. M W F, 9. Prerequisite: familiarity with the symbols and terminology of musical notation together with a knowledge of intervals and simple metrical types (matriculation subject 21a). Students who desire to undertake regular work in harmony, but who find themselves unprepared in this respect, should enroll in course AB and arrange to take course 4B at the beginning of the following half-year.

4B will be given also during the first half-year (M W F, 10), leading to course 5A, beginning January, 1918.

4A will be given also during the second half-year. M W F, 1.

**5A-5B. Chromatic Harmony and Three-part and Four-part Strict Counterpoint.** (Second-year Course.) Mr. STRICKLEN.

3 hrs., throughout the year. Tu Th S, 9 (or other hour). Prerequisite: course 4A-4B.

5B will be given also during the first half-year. M W F, 2.

5A will be given also during the second half-year. M W F, 10.

**FREE ELECTIVE FOR STUDENTS OF ANY YEAR**

**20A-20B. The Communal Music Drama.**

Professor SEEGER and Assistant Professor CORY.

Primarily for students of marked originality in literary, musical, or dramatic composition.

**UPPER DIVISION COURSES**

**104A-104B. Contrapuntal Studies** (Third-year course.)

Mr. STRICKLEN and Professor SEEGER.

Double and triple counterpoint; elementary canon and fugue.

3 hrs., throughout the year. M W F, 11 (or other hour). Prerequisite: course 5A-5B.

- 105A-105B. Composition. (Fourth-year course.) Professor SEEGER.  
Tu, 10-12, and a weekly conference to be arranged; 2 units. Prerequisite: course 104A-104B.

*Performance*

NOTE.—Not more than one of the courses in vocal or instrumental practice or repertoire (1, 11A-11B, 2, 101A-101B, 102) may be taken for credit in any one year. Courses 1, 2, and 102 may be repeated.

LOWER DIVISION COURSES

1. Choral Practice. Mr. STEINDORFF.  
2 hrs., either half-year; 1 unit. Tu Th, 1. To receive credit, student must have passed or must be enrolled in some other course in the Department of Music (excepting course 17). Any student in the University with a good singing voice may attend the meetings and take part in the final concert or operatic performance.
2. Orchestral Practice. Mr. STEINDORFF.  
2 hrs., either half-year; 1 unit. W, 7:30-9:30 p.m.
- 6A-6B. Musicianship and Musical Performance. Mr. STEINDORFF.  
2 hrs., throughout the year. Tu Th, 2. Primarily for students who have studied or are studying the technique of an instrument or of the singing voice.
- 10A-10B. The Singing Voice.  
3 hrs., throughout the year; 2 units each half-year. M W F, 2. (Credit will not be allowed for both Public Speaking 3A-3B and Music 10A-10B.
- 11A-11B. Repertoire.  
2 hrs., throughout the year. M F, 3. Prerequisite: first or second grade in course 10A-10B, or its equivalent—the elements of a sound technique in singing.

UPPER DIVISION COURSES

- 101A-101B. Concert Repertoire.  
1-2 hrs., throughout the year; 1 unit each half-year. Hours to be arranged. Prerequisite: course 11A-11B or exceptional vocal technique.
102. Pianoforte Ensemble Practice. Professor SEEGER.  
Eight-hand symphonic arrangements. Open only to students who possess exceptional technique and who practice one hour or more every day.  
2-3 hrs., either half-year; 2 units.

## 109A-109B. Conducting.

Mr. STEINDORFF.

2 hrs., throughout the year; 2 units each half-year. Tu Th, 3, and preceptorial sections 2 hrs. each week to be arranged. Prerequisite: course 5A-5B. Course 6A may, unless previously taken, be required as supplementary study without credit in this course.

*Musicology*

## UPPER DIVISION COURSES

## \*111A-111B. Critical Study of the History of Music. Professor SEEGER.

Pro-seminar. Lectures, reports.

3 hrs., throughout the year.

## 112A-112B. Introduction to Musicology.

Professor SEEGER.

Pro-seminar. Lectures, reports and a thesis.

Th, 10-12, and weekly conferences to be arranged. Prerequisite: course 5A-5B. Students must have completed course 104A-104B or else be taking it concurrently with this course.

## 110A-110B. The Teaching of Music.

The STAFF.

3 or 4 hrs., throughout the year; 3 units each half-year. Prerequisite: courses 104A-104B, 111A-111B; also course 109A-109B, which, however, may be taken concurrently with this course.

NOTE.—Technical skill as well as mature knowledge of the subject is required of the prospective teacher; the student will therefore be given separate final examinations inquiring into the systematization of musical knowledge and the ability to impart it under the exacting conditions of the modern school, as follows: (1) sight reading and dictation, (2) elements of composition, (3) history of music, (4) pianoforte technique, (5) singing, (6) conducting.

## GRADUATE COURSE

## 200A-200B. Musical Criticism.

Professor SEEGER.

Throughout the year. Hours to be arranged.

---

\* Given alternately with course 112A-112B.

# ORIENTAL LANGUAGES

ALFRED FORKE, LL.D., Agassiz Professor of Oriental Languages and Literature.

JOHN FRYER, LL.D., Professor of Oriental Languages, Emeritus.

YOSHI S. KUNO, M.S., Instructor in Japanese.

S. C. KIANG, Assistant in Chinese.

Some of the courses are accepted by the College of Commerce and other colleges as part of their regular curriculum or as equivalents for prescribed work. Students who wish to take up these Oriental studies may therefore find it to their advantage to consult with the Dean of their college as to the arrangements that can be made in that direction.

In addition to the lecture and language courses mentioned below, Professor Forke will offer special assistance to students who wish to take up other branches of study connected with China and Japan. He will also act as advisor to students coming from or going to the Orient.

Students who specialize in Oriental languages are advised to take courses in Sanskrit and in the Semitic languages.

## LOWER DIVISION COURSES

### *Language Courses*

3A-3B. Elementary Study of Kuan-hua. Professor FORKE.

Introduction to Kuan-hua, the language spoken, with slight variations, by the officials and about four-fifths of the population of China. Series of progressive, elementary lessons and exercises in reading, speaking and translation.

3 hrs., throughout the year. M W F, 9.

8A-8B. Chinese Conversation for Beginners. Mr. KIANG.

Practical exercises in the use of Kuan-hua.

3 hrs., throughout the year. M W, 11, and a third hour to be arranged.

9A-9B. Elementary Study of the Japanese Language. Mr. KUNO.

Introduction to the Japanese language, with the use of both the Katakana and Hiragana forms of letters. Series of progressive elementary lessons and exercises in reading, writing, and speaking.

3 hrs., throughout the year, beginning in August or in January. First half-year, M W F, 1; second half-year, M W F, 8.

9C-9D. Second Year of Elementary Japanese. Mr. KUNO.

Continuation of 9A-9B, introducing the use of common Chinese characters, with selections from Japanese newspapers and modern Japanese authors.

3 hrs., throughout the year, beginning in August or in January. First half-year, M W F, 8; second half-year, M W F, 10.

10A-10B. Chinese Character Writing with Brush and Ink, an Introduction to the Chinese Language. Mr. KIANG.

2 hrs., throughout the year, beginning in August or in January; 1 unit each half-year. M, 1-3.

12A-12B. Japanese Character Writing. Mr. KUNO.

Instruction in handling the brush, in making the various strokes, in forming the characters, and in different styles of writing.

2 hrs., throughout the year, beginning in August or in January; 1 unit each half-year. S, 8-10.

## UPPER DIVISION COURSES

### *Language Courses*

103A-103B. Elementary Study of the Chinese Written Language, Ancient and Modern. Professor FORKE.

3 hrs., throughout the year. M W F, 11.

104A-105B. Advanced Study of Kuan-hua. Mr. KIANG.

Series of progressive advanced lessons and exercises in reading, speaking, and translation.

3 hrs., throughout the year. M W F, 10.

105A-105B. Elementary Study of the Classics and the Written Language of Japan. Mr. KUNO.

Progressive selections from various kinds of current literature and from standard Japanese classics and poetical works.

2 hrs., throughout the year. Tu Th, 8. Prerequisite: course 110A-110B.

106A-106B. Advanced Study of Japanese Classics. Mr. KUNO.

Interpretation of Hōjō-ki, Tsure-zuregusa, and Makura-no-sōshi. May be repeated without duplication of credit.

2 hrs., throughout the year, to be arranged. Prerequisite: course 105A-105B.

107A-107B. Popular Reading Course in Japanese. Mr. KUNO.

Designed primarily for California-born Japanese and students of other nationalities who desire to attain facility in reading modern literature, magazines, and newspapers.

1 hr., throughout the year; 1 unit each half-year. F, 2.

108A-108B. Advanced Chinese Conversation. Mr. KIANG.

3 hrs., throughout the year. M W F, 3. Prerequisite: course 8A-8B, or some practice in conversation.

110A-110B. Advanced Study of the Japanese Spoken Language.

Mr. KUNO.

Series of progressive advanced lessons in reading, speaking, writing, translation and composition.

3 hrs., throughout the year. M W F, 9. Prerequisite: course 9C-9D.



112A-112B. Study of the Chinese Classical Language.

Professor FORKE.

(a) Reading of Mencius. (b) Interpretation of the works of Lieh-tse.  
May be repeated without duplication of credit.

2 hrs., throughout the year. Tu Th, 10.

113A-113B. Reading of a Chinese Text.

Mr. KIANG.

2 hrs., throughout the year. W F, 2.

130A-130B. Chinese Composition.

Mr. KIANG.

Writing of letters and short essays.

2 hrs., throughout the year. M F, 1. Prerequisite: some knowledge of the modern written language.

*Lecture Courses*

109A-109B. Japan and Her Makers.

Mr. KUNO.

Prominent historical characters and events will be treated in chronological order, so as to give a general view of the history of Japan. Stress will be placed upon her political and social evolution and the development of her civilization. About 700 pages of outside reading are required in this course.

2 hrs., throughout the year. Two sections: I, Tu Th, 9; II, M W, 11. Prerequisite: junior standing or History 1A-1B or Political Science 106.

\*121A-121B. Commerce and Industry of Japan.

Mr. KUNO.

The development of commerce and industry in Japan; economic conditions and foreign trade.

1 hr., throughout the year. W, 2. Prerequisite: course 109A-109B.

\*122A-122B. Japanese Religions and Ethics.

Mr. KUNO.

The development of Shintoism, Confucianism, Buddhism, Christianity, and the modern Ethical System in Japan and their effect on her civilization.

1 hr., throughout the year. W, 2. Prerequisite: course 109A-109B.

123A-123B. Japanese Art and Literature.

Mr. KUNO.

1 hr., throughout the year. W, 2.

\*124A-124B. International Relations of Oriental Countries.

Mr. KUNO.

The political and intellectual relations of Japan, China, and Korea, and their diplomatic relations with Occidental powers.

1 hr., throughout the year. W, 2. From 400 to 500 pages of outside reading and a term paper of about 3500 words are required.

NOTE.—Courses 121, 122, 123, and 124 will form a series to be given in successive years.

\* Not to be given, 1917-18.

126A-126B. Chinese Culture: Religion, Art, and Literature.

Professor FORKE.

2 hrs., throughout the year. M W, 10.

127, Chinese Industrial Art.

Professor FORKE.

Continuation of 126A-126B.

1 hr., first half-year. Tu, 9.

\*128A-128B. The Economic Conditions of China.

Professor FORKE.

Chinese agriculture, industries, trade and commerce, and means of transportation.

1 hr., throughout the year. F, 10.

129A-129B. History of China.

Professor FORKE.

1 hr., throughout the year. F, 10.

#### GRADUATE COURSES

201A-201B. Oriental Seminar.

Professor FORKE.

Reviews of new books on China, research work, and reports by the students on assigned subjects.

2 hrs., throughout the year, to be arranged.

203A-203B. Research Work and a Critical Study of Modern Topics and Books on Japan.

Mr. KUNO.

Class work will consist of lectures by the instructor and reports by students. May be repeated without duplication of credit.

2 hrs., throughout the year. F, 3-5. Prerequisite: at least senior standing, and the completion of 6 units in upper division courses in the department.

---

\* Not to be given, 1917-18.

# **PALAEONTOLOGY**

**JOHN C. MERRIAM, Ph.D., Professor of Palaeontology and Historical Geology.**

**BRUCE L. CLARK, Ph.D., Instructor in Palaeontology.**

**EUSTACE L. FURLONG, Assistant in Palaeontology.**

The field for palaeontologic study and research on the Pacific Coast, and especially in the territory immediately accessible from the University, is a most remarkable one. A large part of the geologic column is exposed and open for study in the region easily reached from the University. Within a radius of twenty-five miles from Berkeley the Coast Range formations, ranging from early Cretaceous to Pleistocene, are represented by splendid exposures containing abundant fossil remains. This section is the basis for regular field work.

Research work in palaeontology has been based largely on a study of the material immediately at hand. Our knowledge of West Coast palaeontology is now in the making, and advanced students are expected to assist in working out some of the problems before us. The collections available for study and comparison in research include a representative series of the invertebrate faunas of California, together with a large quantity of invertebrate material from horizons the position of which are not as yet clearly determined. The vertebrate collections include the original material obtained by the University in progress of work in the John Day region of Oregon; the Virgin Valley, Thousand Creek and Cedar Mountain regions of Nevada; Potter Creek Cave, Samuel Cave, and Hawver Cave of the mountain regions of California; Rancho La Brea, and the Mohave region of Southern California; and the Triassic limestones of Northern California and Western Nevada.

There are no laboratory fees in this department.

## **LOWER DIVISION COURSES**

1. General Palaeontology. Professor MERRIAM.  
Lectures, assigned reading, and written reports. General principles of the study of the history of life.  
2 hrs., first half-year. Tu Th, 10. Preparatory to Geology 1B. Zoology 1A is recommended as preliminary.
2. Demonstration Course. Professor MERRIAM.  
Demonstrations, excursions, conferences, and assigned reading.  
1 hr., first half-year. Two sections: I, Tu, 1; II, Th, 11. Course to accompany course 1.

## UPPER DIVISION COURSES

## 102. Invertebrate Palaeontology.

Dr. CLARK.

A laboratory study with assigned reading on the most important forms of fossil invertebrates, with special reference to the history of life in the Pacific Coast region.

6 hrs. laboratory, 2 hrs. lecture, first half-year; 4 units. Prerequisite: course 1 completed or in progress.

## 103. Invertebrate Faunas of the Pacific Coast Region.

Dr. CLARK.

Laboratory and field work on the fossil invertebrate faunas of the Pacific Coast region.

6 hrs. laboratory, 1 hr. lecture, 3 hrs. field work, second half-year; 4 units. Prerequisite: course 102.

## 104. Vertebrate Palaeontology.

Professor MERRIAM.

Osteology, affinities, and history of the principal groups of vertebrates.

3 hrs. laboratory, 1 hr. lecture or pro-seminar, first half-year; 2 units. Prerequisite: course 1 completed or in progress, or Zoology 1A. The lectures may be taken separately as Palaeontology 104A (1 unit) by students in Zoology 106.

## 105. History of Vertebrate Life in Western North America.

Professor MERRIAM.

A study of the extinct vertebrate faunas of western North America, with special reference to the most important problems illustrated by the history of these groups.

3 hrs. laboratory, 1 hr. lecture, 1 hr. pro-seminar, second half-year; 3 units. Prerequisite: course 104.

## PRIMARILY FOR GRADUATES

## 206A-206B. Palaeontologic Seminar.

Professor MERRIAM.

1 hr., throughout the year; 1 unit each half-year.

Sec. 1. Invertebrate palaeontology of the Pacific Coast region.

Sec. 2. Vertebrate palaeontology of the Pacific Coast region.

## 207. Advanced Vertebrate Palaeontology.

Professor MERRIAM.

Credit not to exceed 6 units. Laboratory or field work, which may be done either during a session or during vacation periods. The work must be registered for in advance, it must be planned with the instructor in charge, and must be carried on under the direction of the instructor. Work done outside the limits of the fall or spring sessions must be supplemented by a written report.

## 208. Advanced Invertebrate Palaeontology.

Professor MERRIAM and Dr. CLARK.

Credit values, requirements as to place and time for conducting work, and nature of conditions governing final reports arranged on the same basis as for course 207.

**PATHOLOGY AND BACTERIOLOGY**

FREDERICK P. GAY, A.B., M.D., Professor of Pathology.

GLANVILLE Y. BUSK, A.B., M.D., Associate Professor of Pathology.

IVAN C. HALL, A.B., M.S., Assistant Professor of Bacteriology.

JEAN V. COOKE, A.B., M.D., Assistant Professor of Pathology.

— — —, Instructor in Bacteriology.

— — —, Assistant in Pathology.

DOLORES E. BRADLEY, B.S., M.A., Assistant in Bacteriology.

RUTH L. STONE, M.S., Edith Claypole Research Fellow in Pathology.

CARL L. A. SCHMIDT, M.S., Ph.D., Research Assistant in Pathology.

Student Assistants.

All courses are given in the Hearst Laboratory of Pathology in Berkeley, except as otherwise noted.

**LOWER DIVISION COURSE****1. General Bacteriology and Microbiology.**

Assistant Professor HALL, — — —, Miss BRADLEY, and Assistants.

History of bacteriology; morphology, classification, ecology and metabolism of micro-organisms; sterilization; preparation of culture media; microscopic examination, cultivation and identification of bacteria; introduction to microbiology of air, water, soil, foods (including milk), industrial processes, and certain human, animal and plant diseases.

9 hrs., second half-year; 4 units. Lectures, Tu Th S, 9; laboratory sections: I, M W F, 1-3; II, M W F, 3-5; III, Tu Th S, 10-12. Prerequisite: Chemistry 1A. Fee, \$10. Deposit, \$5, subject to refund, less deduction for breakage at end of half-year.

**UPPER DIVISION COURSES****PRIMARILY FOR MEDICAL STUDENTS**

The second year medical course in pathology aims to outline the natural history of disease in four correlated courses dealing respectively with causation, progress and effect.

**101. Medical Bacteriology and Protozoology.**

Assistant Professor HALL and Miss BRADLEY.

History of bacteriology; morphology, classification, ecology and metabolism of micro-organisms; sterilization; preparation of culture media; microscopic examination, cultivation, and identification of bacteria; systematic study of pathogenic micro-organisms.

12 hrs., first half-year; 4 units. Lecture, M Tu Th F, 1; laboratory, 2-4. Open with the consent of the instructor to non-medical students whose record in course 1 is thoroughly satisfactory. Fee and deposit for non-medical students, same as for course 1.

## 102. Infection and Immunity: Lectures.

Professor GAY.

Accessible aspects of functional pathology; evolution of infectious diseases of the body and the mechanism of animal defense; principles of immunology and their applicability in prophylaxis, diagnosis and specific therapy.

2 hrs., first half-year. M W, 11. Prerequisite for non-medical students: course 1.

## 103. Infection and Immunity: Laboratory. Professor GAY and ———.

Experimental methods; demonstrations.

4 hrs., first half-year; 1 unit. M Tu Th F, 4. Prerequisite for non-medical students: course 1. Fee for non-medical students, \$10. This course cannot be taken separately from courses 101, 102.

## 104. Morbid Anatomy and Histopathology.

Associate Professor RUSK and Dr. ———.

Changes in organs and tissues in disease in the animal and human body; macroscopic lesions illustrated by fresh material from autopsies and museum specimens. Lectures, conferences, and practice.

16 hrs., first half-year; 6 units. M W Th S, forenoons.

## 105. Autopsy Course.

Assistant Professor COOKE.

Third and fourth years in the medical curriculum at the University of California Hospital and at the San Francisco Hospital.

## GRADUATE COURSES

## 201. Research.

Professor GAY.

Problems of infection and immunity.

Either half-year. Hours to be arranged.

## 202. Research. Neuropathology.

Associate Professor RUSK.

Either half-year. Hours to be arranged.

## 203. Research. Bacteriology and Protozoology.

Assistant Professor HALL.

Investigation of concrete problems suggested by the work in general or medical bacteriology.

Either half-year. Hours to be arranged. Prerequisite: course 1 or its equivalent.

## 204. Advanced Morbid Anatomy and Histopathology.

Assistant Professor COOKE.

Autopsy technic and the working up of tissues and cultures resulting from post-mortem examination. Elective for fourth-year and graduate students in medicine.

Second half-year. University Hospital.

**205. Experimental Pathology.**

Associate Professor RUSK and Dr. —.

Experiments illustrating functional changes as evidenced by chemical and physiological methods and tissue alterations; results demonstrated in course 104. Special problems. Open to qualified students and graduates by special arrangement.

**206. Immunochemistry. Seminar.**

Dr. SCHMIDT.

Consideration and discussion of the physical-chemical aspects of the subject of immunity. Informal discussion and presentation of current problems.

First half-year; 1 unit. Time to be arranged.

## PHILOSOPHY

GEORGE M. STRATTON, Ph.D., Professor of Psychology.

CHARLES H. RIEBER, Ph.D., Professor of Logic.

GEORGE P. ADAMS, Ph.D., Associate Professor of Philosophy.

ARTHUR U. POPE, M.A., Assistant Professor of Philosophy.

WARNER BROWN, Ph.D., Assistant Professor of Psychology.

CLARENCE I. LEWIS, Ph.D., Assistant Professor of Philosophy.

JACOB LOEWENBERG, Ph.D., Instructor in Logic.

OLGA L. BRIDGMAN, M.D., Ph.D., Instructor in Mental Abnormalities of Childhood.

SPENCER W. SYMONS, A.B., LL.B., Assistant in Psychology.

*Honor-students in the Upper Division.*—Candidates will enroll in the honor-course 199. The student's work in this honor-course will be under the supervision of one or more instructors with whom the student is taking a major course. The honor-course will hold stated fortnightly meetings at which time students will report on their work within their chosen field.

## LOWER DIVISION COURSES

Although these courses properly fall within the first two years of undergraduate work, and are prerequisite, as specified below, to the major courses in the upper division, they are all open as free electives to any student in the University, unless restrictions are explicitly stated.

Students who intend to do advanced work in philosophy should take either course 103, History of Philosophy, or 104, Ethics, in the sophomore year. Both these courses are regularly open to sophomores who intend to take further work in philosophy.

*Philosophy*

## 1A. Deductive Logic.

Professor RIEBER.

Division; definition; the forms and transformations of judgments; the syllogism, and the deductive fallacies.

3 hrs., either half-year. M W F, 1.

## 1B. Inductive Logic.

Professor RIEBER.

The presuppositions and methods of the inductive sciences.

3 hrs., either half-year. M W F, 2. Prerequisite: course 1A.

## 1C. Elements of the Logic of Science.

Assistant Professor LEWIS.

Graphic and symbolic methods in logic; typical logical problems common to all branches of scientific procedure.

3 hrs., either half-year. M W F, 1. Prerequisite: course 1A.

The logic-mathematics requirement for the junior certificate may be satisfied by completing courses 1A and 1B or courses 1A and 1C. But courses 1B and 1C cannot both be counted for credit either toward junior certificate requirements or the bachelor's degree.



*Psychology*

2A. General Psychology.

Professor STRATTON.

The facts of consciousness, their relation to one another and to their physical correlates. Demonstrations, lectures, and readings.

3 hrs., first half-year. M W F, 3. The course is not open to freshmen; sophomores on completing this course may elect course 2B.

UPPER DIVISION COURSES

FREE ELECTIVE COURSES

Normally, free elective courses in the upper division are restricted to students holding the junior certificate. But other students whose records give evidence of proper qualification may be admitted, provided they have been in residence not less than a year. Such students must make application in person to the instructor in charge of the course sought, prior to its opening.

*Psychology*

\*10. Memory and the Process of Learning. Assistant Professor BROWN.

The acquisition of habits and of skill, the formation of associations; economical methods of learning and studying; the training of memory. Lectures and assigned reading.

3 hrs., first half-year. M W F, 1.

*Philosophy*

36A-36B. Aesthetics.

Assistant Professor POPE.

First half-year: The fundamental principles of the fine arts. Analyses of illustrative material.

Second half-year: Nature, origin, and development of aesthetic experiences. Physiological and psychological basis; logical and ethical relations, and philosophical significance.

2 hrs., throughout the year. Tu Th, 11.

40. The Problems of Philosophy.

Assistant Professor POPE.

The aim and scope of philosophy; relations to science and religion. Discussion of characteristic problems. Outlines of typical solutions.

3 hrs., second half-year. Lectures, M W, 11; recitations and conferences in sections, 1 hr., to be arranged.

\*45A-45B. Philosophies of Social Relations. Assistant Professor LEWIS.

A critical survey of the philosophical basis of anarchism, individualism and socialism. Fundamental ethical problems of political and economic organization. For students who have some knowledge of economic and social theory.

2 hrs., throughout the year. Tu Th, 2.

46. Literary Expressions of Philosophic Problems.

Dr. LOEWENBERG.

Analysis of fundamental philosophic problems through an interpretation of selected literary masters, such as Dante, Goethe, Schiller, Dostoyevsky, Tolstoy, and others.

2 hrs., first half-year. Tu Th, 3.

---

\* Not to be given, 1917-18.

**MAJOR COURSES***Philosophy*

- 103A-103B. History of Philosophy. Assistant Professor LEWIS.  
Critical account in outline, of the course of Occidental thought, with references to the thought of the Orient.  
3 hrs., throughout the year. M W F, 2.
- 104A-104B. Ethics, Theoretical and Practical. Associate Professor ADAMS.  
History and criticism of the chief ethical theories, with an application of the results to the main problems of conduct, individual and social.  
3 hrs., throughout the year. M W F, 1.
- 105A. The Kantian Philosophy. Assistant Professor LEWIS.  
3 hrs., first half-year. Tu Th, 2, and a third hour to be arranged. Prerequisite: course 103A-103B.
109. Symbolic Logic. Assistant Professor LEWIS.  
Graphic methods in logic, the elements of symbolic logic, and some applications.  
3 hrs., second half-year. M W, 11, and a third hour to be arranged. Prerequisite: course 1A.
111. Metaphysics. Associate Professor ADAMS.  
The relation between mind and body, the nature of consciousness and personality, the philosophy of evolution, and man's relation to nature.  
3 hrs., first half-year. M W F, 3. Prerequisite: course 103B.
- 112A-112B. Religion. Associate Professor ADAMS.  
First half-year: The origin and development of religion, the chief types of ideas and practices in the historical religions.  
Second half-year: Analysis and criticism of contemporary interpretations of religion, the truth of religious ideas, and the place of religion in modern life.  
2 hrs., throughout the year. Tu Th, 10. Prerequisite: course 1A or 1B.
114. Theory of Knowledge. Professor RIEBER.  
An intensive study of the morphology of the concepts, the import of propositions, and the principles of inference.  
2 hrs., first half-year. Tu Th, 9. Prerequisite: courses 1A, 1B.
115. Logic of Science. Professor RIEBER.  
The relation of the other sciences to mathematics and logic; the use of hypothesis in science; modern methods of verification and modern ideas about scientific truth.  
2 hrs., second half-year. Tu Th, 9. Prerequisite: courses 1A, 1B.

---

\* Not to be given, 1917-18.

- 116A-116B. Plato. Assistant Professor POPE.  
3 hrs., throughout the year. M W F, 9. Prerequisite: course 103A-103B. This course may be counted as a major in Greek for students who read the Plato and the Aristotle in the original.
123. German Idealism after Kant. Dr. LOEWENBERG.  
Fichte, Schelling and Hegel: the development of the Kantian philosophy in Germany.  
3 hrs., second half-year. M W F, 1. Prerequisite: courses 103A-103B and 105A.
125. Philosophic Theories of the Nineteenth Century. Dr. LOEWENBERG.  
Summary account of Fichte, Schelling, Hegel, Schopenhauer, Darwin, Comte, Mill, Spencer, Haeckel, Nietzsche.  
3 hrs., first half-year. M W F, 1. Prerequisite: course 103B.
135. Contemporary Tendencies in Philosophy. Dr. LOEWENBERG.  
A critical discussion of contemporary realism, idealism, pragmatism, and the philosophy of Bergson.  
3 hrs., second half-year. M W F, 2. Prerequisite: course 103B.
- \*136. Advanced Aesthetics. Assistant Professor POPE.  
The major problems of aesthetics in the light of recent contributions. Critical discussion of the work of Bosanquet, Croce, Lipps, Meumann, Puffer, with special reference to the problem of method. Applications of aesthetic principles to recent tendencies in art.  
3 hrs., first half-year, to be arranged. Prerequisite: course 36A-36B.
137. Recent English Idealism. Assistant Professor POPE.  
The work of Green, Caird, Bosanquet, with special reference to the philosophical theory of the state.  
3 hrs., first half-year. M, 3; W, 3-5. Prerequisite: course 103A-103B.
- \*138. Continental Rationalism in the Seventeenth Century. Dr. LOEWENBERG.  
Descartes, Spinoza, and Leibnitz, with some attention to their contemporaries.  
2 hrs., first half-year. M W F, 1. Prerequisite: course 103A-103B.
139. The Philosophy of Royce. Dr. LOEWENBERG.  
2 hrs., throughout the year. Tu Th, 1. Prerequisite: course 103A-103B or course 104A-104B.

Psychology

- 102B. Applied Psychology. Professor STRATTON.  
Certain results of modern psychology bearing upon the work of the lawyer, the physician, the teacher, and the minister.  
3 hrs., second half-year. M W F, 3. Open to sophomores who have completed course 2A, which is also the prerequisite for upper division students who wish to take this course.

\* Not to be given, 1917-18.

145. Social Psychology. Associate Professor ADAMS.  
The basis of social relations and the social aspects of human nature.  
The application of social psychology to ethical, political, and religious problems.  
3 hrs., second half-year. M W F, 3. Prerequisite: course 2A or 2B.
106. Introduction to Psychological Experiment. Assistant Professor BROWN.  
Sensation, perception, emotion, movement, attention, memory, imagination, habit.  
4 hrs., first half-year; 2 units. Tu Th, 1-3. Prerequisite: course 2A.
107. Phases of Medical Psychology. Assistant Professor BROWN.  
Experiments illustrating methods of testing and measuring mental processes, particularly the methods employed in applied and clinical psychology.  
4 hrs., second half-year; 2 units. Tu Th, 1-3. Prerequisite: course 2A.
- 124A-124B. History of Psychology. Professor STRATTON.  
Psychological observations, theory, and method, through early Hindu and Greek thought to the present time.  
2 hrs., throughout the year. Tu Th, 3. Prerequisite: course 2A.
133. Advanced General Psychology. Assistant Professor BROWN.  
Contemporary discussions of sensation, perception, attention, the self, the will, and related topics. Lectures, recitations, and reports.  
3 hrs., second half-year. M W F, 9. Prerequisite: course 2A.
- 140A-140B. Psychological Experiments. Assistant Professor BROWN.  
Special yet connected problems; experiments, reading, and discussions in common.  
Not less than 6 hrs., throughout the year; 3 units. Units and hours to be arranged with each student, at times within M Tu W Th F, 10-12 and 1-4. Prerequisite: course 106 or 107.
- \*141A-141B. Psychological Conference. Professor STRATTON.  
Reading, with discussion, of selected topics in psychology.  
2 hrs., throughout the year. Tu Th, 3. Prerequisite: course 2A.
142. Abnormal Psychology of Childhood: Elementary. Dr. BRIDGMAN.  
A study through lectures, reading, and clinical demonstration, of the more important phases of mental abnormality in children.  
2 hrs., throughout the year. M W, 4. Prerequisite: courses 2A and 2B.
143. Abnormal Psychology of Childhood: Advanced. Dr. BRIDGMAN.  
Special problems, with field work.  
2 hrs., throughout the year. M W, 3. Prerequisite: courses 106 or 107, and 142.
- 199A-199B. Honor-course. The STAFF.  
Throughout the year. Hours to be arranged.

---

\* Not to be given, 1917-18.

# GRADUATE COURSES

The qualifications for each course are indicated in its prerequisite. Qualified undergraduates may be admitted by special permission of the officers in charge.

## 211A-211B. Seminar in Logic.

Professor RIEBER.

Logic as the method of truth; development and criticism of the leading theories of knowledge.

2 hrs., throughout the year. Tu Th, 10. Prerequisite: a good knowledge of Kant's critical writings, and of the attempted continuation of his principles by Fichte and Hegel.

## 212A-212B. Ethics Seminar.

Associate Professor ADAMS.

Topic for 1917-18: The analysis of some fundamental concepts of theoretical ethics, and their practical application.

2 hrs., throughout the year, to be arranged. Prerequisite: courses 103 and 104.

## 213A-213B. Psychological Research.

Professor STRATTON and Assistant Professor BROWN.

The investigation of special problems selected with regard to the individual interest of those electing the work; reports and discussions. Prerequisite: course 133 or 140. Units and hours arranged with each student; all are expected to attend a special fortnightly meeting, 2 hrs., throughout the year, Th, 8-10 p.m.

## 215. The Theory of Consciousness: Seminar. Assistant Professor LEWIS.

2 hrs., second half-year, to be arranged.

## 221A-221B. Seminar in the History of Aesthetic Theory.

Assistant Professor POPE.

Criticism of the classical aesthetic theories, particularly those of Plato, Aristotle, Kant, Schopenhauer, Hegel, and Lessing.

2 hrs., throughout the year, to be arranged.

## 225A-225B. Seminar in Hegel's Philosophy.

Dr. LOEWENBERG.

2 hrs., throughout the year. Tu, 7:30-9:30 p.m.

In addition to the foregoing courses, special lines of study will be arranged for qualified graduates who are candidates for higher degrees, or who wish to carry on advanced work.

**PHYSICAL EDUCATION FOR MEN**

WALTER E. MAGEE, Professor of Physical Culture.

FRANK L. KLEEGER, B.S., M.A., Director of Men's Gymnasium and Associate Professor of Physical Education.

FREDERICK W. COZENS, A.B., Instructor in Physical Education.

JAY B. NASH, A.B., Lecturer in Recreation.

MARCUS FREED, Special Assistant in Boxing.

CHARLES W. ANDREWS, Special Assistant in Wrestling.

The prerequisites to advanced work in physical education are Chemistry 1A, Zoology 1A, and Hygiene 3.

*Plan of Prescribed Work.*—All students are examined from time to time, with reference to their health and physical development, and appropriate exercises are prescribed. Intrants are classified for their prescribed work on the basis of physical efficiency, embracing tests of health, strength, endurance, agility, ability to swim and skill in self-defense. Men qualified for the athletic division may take regular work in any type of sport from golf to football. Men failing so to qualify, but not found defective in any essentials of health or bodily conformation, will meet for gymnastic drill during the three weeks, and will be gradually assigned, after medical examination and consultation with the director, to work adapted to their specific needs. The aim is to promote such men as quickly as possible into the athletic division. Men showing abnormality of bodily conformation or physical defects of any sort will be classed as "special" and will be given individual work and advice based on the data of medical and anthropometric examination. The requirements in swimming and self-defense which qualify for athletic division standing must be satisfied by all male students before receiving final credit for the two required units of physical education. Exceptions are made only on advice of the University Infirmary. At the end of each college year tests will be held for those who wish to qualify for the honor-division. Details of the physical efficiency test will be found in the official athletic guide of the department.

Under the above regulations any of the courses listed as lower division work may be taken in satisfaction of the University requirements of two units in physical education. The letters A and B denote the work as taken for credit during the two terms respectively, of the freshman year, while the letters C and D represent the work done in the same courses when taken for sophomore credit. Two hours' work each week throughout the freshman and sophomore years satisfy the above requirement; one-half unit of credit is given for each half-year's work done on the above schedule.

## LOWER DIVISION COURSES

- 1A-1B. **Gymnastics.** Associate Professor KLEEGER.  
Dancing, boxing, apparatus and tumbling drills; in the open air when conditions permit.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Four sections: M Tu Th F, 3-5.
- 2A-2B. **Special.** Associate Professor KLEEGER.  
Corrective gymnastics; careful attention is given to those with postural defects and abnormal conditions, such as flat-foot, obesity, etc.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Two sections: M Tu Th F, 2.
- 3A-3B. **Track.** — — —.  
Class instruction, individual coaching, and advice, supplemented by cross-country runnings, games of hare and hound, etc.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Four sections: M Tu Th F, 3-5.
- 4A-4B. **Rugby Football, Soccer, and Baseball.** Mr. COZENS.  
Games played in season under careful direction of coach and assistants.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Six sections: M Tu Th F, 3-6.
- 5A-5B. **Basket Ball.** — — —.  
Practice games throughout the year, with games scheduled against visiting teams at hours outside the regular section meetings. Sections limited to twenty men each.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Six sections: M Tu Th F, 3-6.
- 6A-6B. **General Recreation.** Mr. COZENS.  
Handball, tennis, playground baseball, volley-ball, basket ball, field hockey, golf, and cross-country walking.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Six sections: M Tu Th F, 3-5.
- 7A-7B. **Elementary Boxing.** Mr. FREED.  
First principles of position, footwork, and blows.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Ten sections, limited to thirty men in each: M Tu Th F, 10-12, 2-5.
- 8A-8B. **Elementary Wrestling.** Mr. ANDREWS.  
Preparatory exercises for special development, various holds, their counters, and general theory of weight control.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Ten sections: M Tu Th F, 10-12, 2-5.
- 9A-9B. **Elementary Fencing.** — — —.  
Class exercise in single stick, broad sword, foil and bayonet, followed by practice in personal combat. Men must supply their own swords, plastrons and gloves.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Six sections, limited to thirty men in each: M Tu Th F, 3-6.
- 10A-10B. **Swimming.** — — —.  
Personal instruction in various strokes as well as class drills in special exercises arranged to facilitate and strengthen necessary co-ordinations. Demonstrations and practice in methods of rescue and resuscitation. Instruction in the principles of diving.  
2 hrs., either half-year;  $\frac{1}{2}$  unit. Six sections: M Tu Th F, 2-5.

## UPPER DIVISION COURSES

- 100A. Physiology of Exercise. Associate Professor KLEEGER.  
 Physiology of muscular tissue. Theories of contraction, fatigue, and neuro-muscular control. Influence of exercise on respiration, circulation, and nutrition. Values and dangers in athletic training.  
 1 hr., second half-year. Tu, 1. Prerequisite: Physiology 1 or 107.
- 106A. Athletic Supervision. Mr. COZENS.  
 Technique of organization in all types of institutions and tournaments, athletic meets, leagues, and series; cooperation with school systems and their adaptation in stimulating the interest of large numbers in recreational sport. Intra-mural sports, class athletics, and school athletics. Educational analysis and ideals; significance in moral education.  
 2 hrs., first half-year; 1 unit. Tu, 1-3.
- 107A. Organization and Management of Playgrounds. Mr. NASH.  
 The development and meaning of the playground and recreational movement; recreational surveys; adaptation to community needs; cooperation with existing organizations; qualifications and duties of directors; playground construction.  
 1 hr., first half-year; Th, 1.
- 107B. Practical Conduct of Playground Activities. Mr. NASH.  
 Details of organization and direction with reference to educational, moral, athletic, dramatic and social phases; technique of group, team and individual games; organization and conduct of leagues, meets, and daily routine work. Demonstration and actual conduct of games and leagues will be carried on at the Play Center.  
 1 hr., second half-year, Th, 1.
- 110A-110B. The Practice of Teaching. Associate Professor KLEEGER and STAFF.  
 Students may work under supervision as assistants in the playground, campfire and scouting activities of Oakland and Berkeley. Men may serve also in the athletic and gymnastic activities of the men's department at the University. Conferences will be held with the instructors in charge of the assigned activities, and reports of the work done will be submitted at the end of each half-year.  
 Hours to be arranged.
- 111A-111B. Advanced Gymnastics. Associate Professor KLEEGER.  
 Heavy apparatus, rings and mats.  
 4 hrs., throughout the year; 1 unit each half-year. M Tu Th F, 5. Prerequisite: course 1A-1B or the consent of the instructor.
- 112A-112B. Advanced Boxing, Wrestling, or Fencing. Mr. ANDREWS and Mr. FREED.  
 Three divisions, one for each of the above activities.  
 4 hrs., throughout the year; 1 unit each half-year. M Tu Th F, 5. Prerequisite: courses 7AB, 8AB, 9AB, or the consent of the instructor.



**PHYSICAL EDUCATION FOR WOMEN**

**MAUDE CLEVELAND, M.A.**, Assistant Professor of Physical Education;  
Director of the Women's Gymnasium.

**RUTH ELLIOTT, A.B.**, Instructor in Physical Education.

**SIGNE E. HAGELTHORN**, Instructor in Physical Education.

**EDNA L. ROOF, B.L.**, Instructor in Physical Education.

**FLORENCE EISENHARDT**, Instructor in Physical Education.

**MARY WOODFORD, A.B.**, Instructor in Physical Education.

**MILDRED LEMON**, Assistant in Physical Education.

**FRANCES WHITTLESEY**, Assistant in Physical Education.

**GERTRUDE L. GIBSON**, Assistant in Physical Education.

**WALTER I. BALDWIN, M.D.**, Special Lecturer in Orthopedics.

**LOWER DIVISION COURSES**

*Prescribed Courses.*—The requirement for the junior certificate includes two hours of work during the freshman year, two hours of work during the sophomore year, and, for students whose physical condition is average or above, proficiency in swimming. A physical examination is given to all intrants at the time of the medical examination in August, and freshmen are assigned according to general physical condition to course 52A-52B, 53A-53B, or 54A-54B. Students entering in January will, if their physical condition permits, be assigned to Sections X and XI of course 52A-52B. Completion of any of these courses with its sophomore continuation will satisfy the requirement for the junior certificate. However, courses 52A-52B, 52C-52D, are prerequisite to all upper division work in the department.

**UPPER DIVISION COURSES**

*Honor-students in the Upper Division.*—Students who undertake honor-work in physical education must have a fair degree of motor control, a sense of rhythm, and must be without organic disease or functional disorder. The following courses are prerequisite to honor-work in physical education: Anatomy 102, Hygiene 3 or 107, Physiology 1 or 107.

The normal requirement for honor-students includes the following courses: Physical Education for men 100A; Physical Education for Women 151, 152, 165A, 165B, 175, 160A-160B, or 161A-161B.

All theoretical courses in the department of physical education for women are open to men; all theoretical courses in the department of physical education for men are open as elective courses to women.

To maintain candidacy students must fulfill the requirement for a major in an allied science subject as well as in physical education, and must carry out in a satisfactory manner a programme approved by the department.

\* In residence second half-year only, 1917-18.

Honors at graduation will be awarded upon the quality of special work undertaken by the student and upon the quality of practical and theoretical work in the department.

Honor-students will be given special opportunity for research in this department in connection with allied departments such as anatomy, education, hygiene, physiology, psychology, and zoology. In addition they will be allowed opportunities for specialization in educational gymnastics in connection with public school teaching, in corrective gymnastics at the orthopedic clinic of the University of California Medical School, and in athletic supervision in connection with department instruction.

### LOWER DIVISION COURSES

#### 52A-52B. Prescribed Course for Freshmen.

Miss ROOF, Miss WOODFORD, Miss LEMON.

Required of all undergraduate women not enrolled in courses 53A-53B or 54A-54B during the first year of their attendance at the University.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Ten sections: I, Tu Th, 11; II, Tu Th, 10; III, Tu Th, 10; IV, Tu Th, 9; V, Tu Th, 3; VI, Tu Th, 3; VII, W F, 10; VIII, Tu Th, 11; IX, W F, 2; X (primarily for students entering in January), M W, 9; XI (primarily for students entering in January), Tu Th, 4.

#### 52C-52D. Prescribed Course for Sophomores.

Miss EISENHARDT, Miss ROOF, Miss LEMON, and Miss WHITTLESEY.

Required of all undergraduate women not enrolled in courses 53C-53D or 54C-54D during the second year of their attendance at the University.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Eight sections: I, M W, 11; II, M F, 10; III, M W, 3; IV, Tu Th, 9; V, M W, 2; VI, M F, 9; VII, W F, 9; VIII, W F, 10. 52D-X, W F, 9. Prerequisite: course 52A-52B.

#### 53A-53B. Corrective Gymnastics. Miss HAGELTHORN and Miss WOODFORD.

Required instead of course 52A-52B of first-year students whose medical and physical examinations indicate the need of corrective exercises.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Six sections: I, M W, 9; II, M W, 10; III, Tu Th, 9; IV, Tu Th, 10; V, M W, 2; VI, M W, 3.

#### 53C-53D. Corrective Gymnastics.

Miss HAGELTHORN and Miss WHITTLESEY.

Required instead of course 52C-52D of second-year students whose medical and physical examinations indicate the need of corrective exercises.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. I, M W, 11; II, Tu Th, 11. Prerequisite: course 53A-53B.

## 54A-54B. Restricted Exercise.

Miss WHITTLESEY.

Required instead of course 52A-52B of first-year students whose medical and physical examinations indicate the need of restricted work.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Tu Th, 2.

## 54C-54D. Restricted Exercise.

Miss LEMON.

Required instead of course 52C-52D of second-year students whose medical and physical examinations indicate the need of restricted work.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Tu Th, 10. Prerequisite: course 54A-54B.

## ELECTIVE COURSES

## 55A-55B. Corrective Gymnastics.

Miss HAGELTHORN.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Hours to be arranged with instructor. Prerequisite: courses 53A-53B, 53C-53D.

## 60A-60B. Folk Dancing.

Miss HAGELTHORN.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Tu Th, 11. Open to juniors and seniors. Prerequisite: courses 52A-52B, 52C-52D.

## 60C-60D. Folk Dancing.

Miss HAGELTHORN.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. M W, 3. Prerequisite: course 60A-60B.

## 61A-61B. Classic Dancing.

Miss EISENHARDT.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. M W, 2. Open to juniors and seniors. Prerequisite: courses 52A-52B, 52C-52D.

## 61C-61D. Classic Dancing.

Miss EISENHARDT.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Tu Th, 3. Prerequisite: course 61A-61B.

## 64. Dancing.

Partheineia practice. Second half-year. No credit. Hours to be arranged. Prerequisite: for freshmen, enrollment in course 52A-52B; for students other than freshmen, one course in dancing in the department.

## 65A-65B. Gymnastics.

Miss ELLIOTT.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Prerequisite: courses 52A-52B, 52C-52D. Two sections: I, M W, 11; II, Tu Th, 2.

## \*65C-65D. Gymnastics.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. Prerequisite: course 65A-65B.

## 66C-66D. Gymnastics.

Miss ELLIOTT.

2 hrs., throughout the year;  $\frac{1}{2}$  unit each half-year. M W, 11. Prerequisite: course 65C-65D.

## 74A-74B. Swimming.

Miss GIBSON.

2 hrs., throughout the year, to be arranged. No credit. Sections: I, advanced; II, intermediate; III, elementary.

**84A-84B. General Recreative Course.****Miss ROOF.**

2 hrs., throughout the year. M W F, 5. No credit. Open with the consent of the instructor to students not taking other work in the department and to women of the faculty, also to women employees of the University.

**UPPER DIVISION COURSES****151. Kinesiology.****Miss HAGELTHORN.**

3 hrs., first half-year; 3 units. M W F, 1. Prerequisite: Anatomy 102.

**152. Theory and Practice of Corrective Gymnastics.****Miss HAGELTHORN.**

2 hrs., second half-year; 2 units. Prerequisite: course 151.

**153A-153B. Practice of Corrective Gymnastics.****Miss HAGELTHORN.**

2 hrs., throughout the year; 1 unit each half-year. Prerequisite: course 152.

**160A-160B. Theory and Practice of Teaching Folk Dancing.****Miss HAGELTHORN.**

1 hr., throughout the year; 1 unit each half-year. Th, 8. Prerequisite: course 60A-60B.

**161A-161B. Theory and Practice of Teaching Classic Dancing.****Miss EISENHARDT.**

1 hr., throughout the year; 1 unit each half-year. F, 8. Prerequisite: course 61A-61B.

**165A-165B. Theory and Practice of Gymnastic Teaching.****Miss ELLIOTT.**

2 hrs., throughout the year; 2 units each half-year. Tu Th, 9. Prerequisite: courses 65A-65B, 151, and consent of the instructor.

**170. Teaching of School and Playground Games.****Miss HAGELTHORN.**

2 hrs., second half-year. Tu Th, 8.

**\*171. Theory and Practice of Athletic Supervision. Department STAFF.**

1 hr., either half-year. Prerequisite: a working knowledge of at least two team games.

**175. Theory of Physical Education and Recreation.****Assistant Professor CLEVELAND.**

3 hrs., second half-year. M W F, 3. Prerequisite: course 165A-165B.

**GRADUATE COURSES****250. Seminar.****Assistant Professor CLEVELAND.**

Topic for the year 1917-18: Current tendencies in physical education. Second half-year. Hours to be arranged. Prerequisite: course 175.

**265. Studies in Gymnastic Teaching.****Miss ELLIOTT.**

Hours to be arranged. Prerequisite: course 165B. Recommended in connection with Education 201.

---

\* Not to be given, 1917-18.

## PHYSICS

FREDERICK SLATE, B.S., Professor of Physics.  
E. PERCIVAL LEWIS, Ph.D., Professor of Physics.  
WILLIAM J. RAYMOND, B.S., Associate Professor of Physics.  
RALPH S. MINOR, Ph.D., Associate Professor of Physics.  
ELMER E. HALL, Ph.D., Associate Professor of Physics.  
RAYMOND B. ABBOTT, M.S., Instructor in Physics.  
WENDELL P. ROOF, A.B., Instructor in Physics.  
LLOYD T. JONES, Ph.D., Instructor in Physics.  
WILLIAM R. STAMPER, Mechanician.  
OSWALD G. STEINITZ, Mechanician.  
Fifteen Assistants.

Courses 1A-1B to 3A-3B are fundamental and designed to meet the needs of students preparing for applications of physics, or advanced work in the subject itself. Students will profit greatly if they supplement the course of laboratory work regularly laid out. For credit in special and supplementary laboratory work see courses 18 and 118. The physical laboratory will be open six days a week throughout the year, and may be used, under the guidance of the instructors concerned, by advanced students. The equipment of the laboratories is modern and extensive, and the University Library contains complete sets of all the important physical journals, and the proceedings and transactions of most of the academies and other societies.

The laboratory *deposit* for courses 1A, 1B, 3A, and 3B is \$10 each; for courses 2C and 2D, \$5 each; for course 1AB, \$15; and for other courses at the rate of \$5 a half-year for each laboratory exercise a week, but no deposit or fee is required for the research courses 216, 218. The *fees* are: For courses 1A or 1B, \$6; for 3A or 3B, \$8; for 2C or 2D, \$4; for 1AB, \$12; for other courses, one-half the deposit. These amounts plus payment for special damage are deducted from the deposits and the balance is returned.

Students who choose upper division courses in physics must include an adequate amount of laboratory exercises in the work chosen; the instructors should be consulted on this point. Students who are preparing to specialize in physics should guide their work by these general suggestions: (1) The preferable choice for the prerequisite in physics is courses 2A-2B, 3A-3B. (2) It is advantageous to include courses 104A and 105A in any plan, because they give control of fundamental methods. (3) Selection among major courses in physics is limited in range, unless a foundation has been laid in differential and integral calculus. (4) Proper access to references cannot be had without power to read physics in French and German. (5) On special questions affecting individual cases confer early with members of the department concerned in the major courses likely to be selected.

*Honor-students in the Upper Division.*—No separate courses are given for honor-students. Provision is made for instruction of a special character in the cases of individuals who seem prepared and inclined to profit by it. See course 119A-119B.

### LOWER DIVISION COURSES

#### 1A-1B. General Physics.

Associate Professor MINOR, Mr. ROOF, and Dr. JONES.

Mechanics, properties of matter and heat. Lectures, recitations, and laboratory exercises, each once a week.

5 hrs., throughout the year; 3 units each half-year. Lecture: Sec. A, Tu, 9; Sec. B, W, 1; Sec. C, Th, 9. Recitation sections: 1, 2, 3, 4, M, 1; 5, 6, 7, 8, Tu, 9; 9, 10, Tu, 11; 11, 12, W, 8; 13, 14, 15, 16, Th, 9; 17, 18, Th, 11; 19, 20, 21, 22, F, 1; 23, S, 8; 24, S, 9. Laboratory sections: I, M, 2-4; II, Tu, 10-12; III, Tu, 2-4; IV, W, 2-4; V, Th, 10-12; VI, Th, 2-4; VII, F, 2-4; VIII, S, 10-12. The fifth hour will be used for supplementary laboratory work or for conferences. Prerequisite: matriculation subject 11. Prescribed in the colleges of engineering and chemistry, and in the school of architecture. Open to other students by special permission.

#### 1AB. General Physics.

Associate Professor MINOR and Dr. JONES.

Identical in scope and subject matter with course 1A-1B, but intended for students entering in January, 1918. Other students to be admitted by special permission only.

10 hrs., second half-year; 6 units. Lectures, M Th, 8. Recitation sections: 1, Tu F, 8; 2, W S, 8. Laboratory sections: I, M F, 2-4; II, Tu Th, 2-4.

#### 2C-2D. General Physics.

Associate Professors MINOR and HALL, and Mr. ABBOTT.

Magnetism, electricity, wave motion, sound, light, and energy transformations, presented as a continuation of course 1A-1B. Two lectures and one laboratory exercise each week.

5 hrs., throughout the year; 3 units each half-year. Lectures: Sec. A, W F, 8; Sec. B, W F, 10. Eight laboratory sections: M Tu W Th F, 1-4; Tu Th S, 9-12. Prescribed in the colleges of engineering and chemistry.

#### 2A-2B. General Physics.

Professor LEWIS and Associate Professor MINOR.

Lectures with experimental illustration and problems. Properties of matter, mechanics, heat, sound, light, energy transformation, electricity, and magnetism.

3 hrs., throughout the year. Prerequisite: matriculation subject 11, which may be waived in cases of distinct merit. Some knowledge of plane trigonometry is desirable. Sec. I, elective in the College of Letters and Science, M W F, 3, Professor Lewis. Sec. II, primarily for pre-medical students, Tu Th S, 11, Associate Professor Minor.

#### 3A-3B. Physical Measurement.

Associate Professor MINOR.

Experimental work in mechanics, properties of matter, heat, sound, light, electricity, and magnetism, requiring quantitative results. Methods are selected so as to show instructive relations of physical principles, and their adaptation to practical problems. Laboratory exercises twice a week. These courses are usually taken in conjunction with 2A-2B. Prerequisite: matriculation subject 11.

6 hrs., throughout the year; 2 units each half-year. Sec. I, M F, 1-4; II, Tu Th, 1-4; III, W, 1-4; S, 8-11.

18. Special Undergraduate Study. Associate Professor MINOR.

All special laboratory work of lower division grade not included in courses announced above. Credit value to be fixed in each case. By special arrangement this course may be made the equivalent of parts of the regular laboratory work under courses 1A-1B, 2C-2D, 3A-3B.

Courses assigned to "The Staff" in what follows are in charge of a committee of which Professor E. P. Lewis is chairman. Students planning to enter any of these courses are directed to confer with him before enrolling, about subject and assignment to instructor.

Courses 118, 119A-119B, and 219A-219B are laid out by special agreement and designed to introduce capable students to advanced topics, in preparation for the systematic study which is the aim of the upper division and the graduate work.

### UPPER DIVISION COURSES

104A-104B. Physical Laws in Terms of Vector Analysis.

Professor SLATE.

An introduction to vector methods, developing them in connection with their application to selected physical problems. Open to qualified students.

2 hrs., throughout the year. Tu Th, 9.

105A-105B. Analytic Mechanics.

Professor SLATE.

The mathematical treatment of principles of dynamics that are fundamental, illustrated by problems and applications.

3 hrs., throughout the year. M W F, 9. Prerequisite: the equivalent of matriculation physics, and some working power in differential and integral calculus.

\*106. Historical Development of Physical Ideas.

Professor SLATE.

Some critical epochs; the turning-points in experimental evidence and the logic of the conclusions drawn from it. Open to qualified students.

2 hrs., second half-year. M W, 11.

107A-107B. Electrical Measurements.

Associate Professor RAYMOND.

The principles of electricity and magnetism, with applications to the measurement of magnetic field, direct and alternating electric current, electro-motive force, resistance, power, illumination, magnetic permeability and the energy losses in iron, electric capacity, inductance and impedance. Calibration and use of the more important types of measuring instruments.

107A. Two lectures and one laboratory exercise a week.

5 hrs., first half-year; 3 units. Lectures, Tu Th, 10; laboratory sections: I, Tu, 1-4; II, W, 1-4. Prerequisite: course 2C-2D, Mathematics 9 and 109 or 3-4.

107B. One lecture and two laboratory exercises a week.

7 hrs., second half-year; 3 units. Lectures, W, 10. Laboratory sections: I, M F, 1-4; II, Tu Th, 1-4. Prerequisite: course 107A.

---

\* Not to be given, 1917-18.

**\*108. Physical Optics.**

Associate Professor HALL.

Lectures with experimental illustrations and recitations, on selected topics in light, relating to the theory of optical instruments.

2 hrs., second half-year. Tu Th, 11. Prerequisite: course 2A-2B and Mathematics 9.

**108A. Polarized Light.**

Associate Professor MINOR.

Laboratory work, with occasional lectures. Methods of producing and detecting plane, circularly, and elliptically polarized light. Practical applications in crystallography, saccharimetry, and metallic reflection. Optical activity.

6 hrs., second half-year; 2 units. Prerequisite: courses 2A-2B, and 3A-3B, or their equivalents.

**109A, 109B. Properties of Matter.**

Mr. ROOP.

109A. Lectures, discussions and problems on gravitation, elasticity, compressibility, capillarity, viscosity, diffusion and rudiments of kinetic theory.

2 hrs., first half-year. Prerequisite: course 1A-1B or its equivalent, and a working knowledge of calculus.

109B. Laboratory work supplementing course 109A by the individual study of experimental problems.

3 or 6 hrs., either half-year; 1 or 2 units.

**110A-110B. Electricity.**

Associate Professor RAYMOND.

Elementary theory of magnetism and electricity, illustrated with problems and applications. One lecture or recitation and two laboratory exercises each week.

7 hrs., throughout the year; 3 units each half-year. Lectures, W, 9; laboratory, Tu W, 2-4. Prerequisite: the equivalent of course 2A-2B and working power in differential and integral calculus.

**111A, 111B. Electric Discharges through Gases.** Professor LEWIS.

111A. Lectures, experimentally illustrated, on phenomena of the flame and electric arc, spark, and vacuum tube; and on cathode rays, Röntgen rays, and radio-activity.

2 hrs., first half-year. M W, 11. Prerequisite: course 2A-2B. This course is recommended as preliminary to course 211-211c.

111B. Laboratory work supplementing course 111A by the individual study of experimental problems.

3 or 6 hrs., first half-year; 1 or 2 units.

**112A. Energetics.**

Professor SLATE.

A non-mathematical account of forms and transformations of energy. Lectures open to qualified students.

\*2 hrs., second half-year. Tu Th, 11.

\* Not to be given, 1917-18.



- 112B. Heat Measurements. Associate Professor HALL.  
 Selected problems in thermometry, calorimetry, pyrometry, intensity of radiation, and general heat measurements, adapted for students in physics, chemistry and engineering. Laboratory work with readings and discussions.  
 6 hrs., either half-year; 2 units. Tu Th, 1-4.
113. Physical Optics. Associate Professor HALL.  
 Laboratory exercises connected with course 108, and in extension of it.  
 6 hrs., either half-year; 2 units. Tu Th, 1-4.
114. Sound. Associate Professor RAYMOND.  
 Laboratory work with occasional lectures and discussions. An experimental treatment of sound sources, and of progressive and stationary waves of sound.  
 6 hrs., second half-year; 2 units. Prerequisite: the equivalent of course 2A-2B, and working power in differential and integral calculus.
- 115A-115B. Laboratory Technique. Dr. JONES.  
 General ideas underlying the construction and adaptation of apparatus for research. Adjustments and laboratory technique, including glass-blowing. Open to qualified students.  
 3 hrs., throughout the year; 1 units each half-year. Th, 1-4.
118. Special Undergraduate Study. The STAFF.  
 All special laboratory work of upper division grade not included in courses announced above. Credit value to be fixed in each case
- 119A-119B. Special Undergraduate Study. The STAFF.  
 Selected topics for reading, intended primarily for honor-students. Throughout the year. Credit to be arranged.

# GRADUATE COURSES

- 206A. Harmonic Motion. Associate Professor RAYMOND.  
 The analytical treatment of vibratory and wave motion, with application to sound, light, and electricity. Lectures with experimental illustrations.  
 2 hrs., first half-year. Tu Th, 8. Prerequisite: courses 2A-2B and 105A-105B, or their equivalents.
- 206B. Electric Waves and Oscillations. Associate Professor RAYMOND.  
 Lectures, with experimental illustrations.  
 2 hrs., second half-year. Prerequisite: course 206A.

- 211-211c. Spectroscopy. Professor LEWIS.  
211. Lectures, with experimental illustrations, on methods and results of investigation, and spectroscopic theories.  
2 hrs., second half-year. Prerequisite: course 108. Course 111A will also be found helpful.  
211c. Laboratory work for students who wish to familiarize themselves with the use of spectroscopic apparatus, or to supplement course 211 by the individual study of experimental problems.
212. Thermodynamics. Associate Professor HALL.  
Lectures.  
2 hrs., first half-year. Tu Th, 10.
213. The Kinetic Theory of Matter. Mr. ROOF.  
Lectures, discussions, and readings on the topics: kinetic theory of gases, equation of condition of vapors and liquids; specific heats; metallic conduction; and the application of kinetic theory to electrical problems.  
2 or 3 hrs., either half-year. Prerequisite: courses 105A-105B, and 111A.
215. Dynamics of Rotation. Professor SLATE.  
Theory of the gyroscope, and related problems.  
3 hrs., first half-year. M W F, 11. Prerequisite: courses 104A, 105A-105B.
- \*215A. Precession and Nutation. Professor SLATE.  
2 hrs., first half-year. M W, 11, in alternate years with course 215.  
Prerequisite: course 215.
- 216A-216B. Special Advanced Study and Research. (Research Course.)  
The STAFF.  
Laboratory work throughout the year, on problems assigned according to the preparation and needs of individual students. Credit value to be fixed in each case.
- 217A-217B. Readings and Discussions. Professor SLATE.  
Work for graduates upon topics selected in consultation. For 1916-17 the special subjects were vector operators in physics, and electron dynamics treated by vector methods.  
2 hrs., throughout the year. Tu Th, 11.
- 218A-218B. Graduate Laboratory Work. (Research Course.) The STAFF.  
Throughout the year. Credit to be arranged individually.
- 219A-219B. Special Graduate Study. The STAFF.  
Selected topics for reading. During the year 1916-17 special topics thus treated were selected within the range of Thermodynamics, Hydrodynamics and Physical Optics.  
Throughout the year. Credit to be arranged individually.
220. Teachers' Course. Associate Professor HALL.  
A seminar designed for prospective teachers of physics.  
3 hrs., second half-year. Tu Th S, 11.

---

\* Not to be given, 1917-18.

**PHYSIOLOGY**

SAMUEL S. MAXWELL, Ph.D., Associate Professor of Physiology.  
 THEODORE C. BURNETT, M.D., Assistant Professor of Physiology.  
 ROSALIND WULZEN, Ph.D., Instructor in Physiology.  
 LILLIAN M. MOORE, M.S., Instructor in Physiology.  
 GEORGE H. MARTIN, A.B., Assistant in Physiology.  
 JOHN A. LARSON, M.A., Assistant in Physiology.

Courses 1 and 2 are designed to meet the needs of students who wish to obtain an elementary knowledge of the subject matter and methods of physiology. While no prerequisite is insisted upon, students who have not had the equivalent of matriculation chemistry will find themselves at a disadvantage.

*Honor-students in the Upper Division.*—Honor-students in physiology should be prepared in physics and inorganic and organic chemistry. They should also have some knowledge of human or comparative anatomy. The following courses will be required: Physiology 1, 2, 108A–108B, 109A–109B, and 110 or 111A–111B; Zoology 1A, 1B may be substituted for Physiology 2. The following courses will be acceptable as a part of the requirement of 24 units in physiology if presented by the student in a programme approved by the department: Anatomy 101, 102, 103; Biochemistry 101; Chemistry 100, 102A, 110, 111. Hygiene 108A–108B. Philosophy 106, 107, 142, 143. Physical Education for Women 165, 175. Physical Education for Men 102AB.

Honor-students will be given special facilities and guidance in all courses, especially in course 111.

The equipment in the Rudolph Spreckels Physiological Laboratory comprises in addition to the apparatus and conveniences for the customary lines of work in mammalian physiology, facilities for research in general physiology and experimental biology. The department library contains complete sets of all the important physiological journals, and the more important monographs on physiological and related subjects.

**LOWER DIVISION COURSES**

1. **Introductory Physiology.** Assistant Professor BURNETT.  
 A general outline of physiology with special reference to the human; designed for non-medical students. This course is introductory to all other work in the department except course 107.  
 8 hrs., first half-year; 4 units. Lectures, Tu Th. 1; laboratory, three sections: I, Tu Th, 2–5; II, M F, 1–4; III, W, 1–4, S, 8–11.
2. **Introductory Biology.** Dr. WULZEN.  
 General survey of the field of biology, with experimental work on various life phenomena. Free elective.  
 8 hrs., second half-year; 4 units. Lectures, Tu Th, 10; laboratory: Sec. I, M W, 1–4; Sec. II, Tu Th, 1–4.

## UPPER DIVISION COURSES

## 104. Physiology.

Associate Professor MAXWELL and Assistant Professor BURNETT.

Physiology of muscle, nerve, central nervous system and sensation, circulation, respiration, and secretion.

21 hrs., second half-year; 10 units. Lectures, M Tu W Th S, 11; F, 10. Laboratory, M Tu W Th S, 8-11. Prerequisite: Anatomy 101. For students matriculated in the Medical School.

## 107. Physiology.

Assistant Professor BURNETT.

A general course in human physiology for students in public health.

8 hrs., first half-year; 4 units. Lectures, Tu Th, 8; laboratory, Tu Th, 9-12. Prerequisite: Anatomy 102, Chemistry 1A-1B.

## 108A-108B. Physiology, Human and Comparative.

Associate Professor MAXWELL.

(A) Physiology of muscle, nerve, the central nervous system and the special senses. (B) Physiology of the circulation; respiration, digestion, nutrition and reproduction.

3 hrs., throughout the year. M W F, 9. Prerequisite: Physics, Chemistry, Physiology 1 and 2, Zoology 1A, 1B. May be substituted for course 2.

## 109A-109B.

Associate Professor MAXWELL and Mr. LARSON.

Laboratory course supplementary to 108A-108B.

6 hrs., throughout the year; 2 units each half-year. Tu Th, 9-12.

## 110. Experimental Biology.

Dr. WULZEN.

Experimentation on cell processes and the tropic reactions. Introductory training in methods of research.

6 hrs., first half-year; 2 units. Tu Th, 1-4. Prerequisite: course 2 or Zoology 1A, 1B and matriculation chemistry.

## 111A-111B. Special Laboratory Work.

The STAFF.

Students who have completed satisfactorily a sufficient amount of advanced work may take up special laboratory or research problems under the direction and supervision of some member of the staff.

6 to 9 hrs., throughout the year; 2 or 3 units. Hours and units must be arranged in advance.

## 113. Physiology of Infancy.

Dr. WULZEN.

The normal infant; its various physiological processes, as digestion, sensation, growth.

2 hrs., first half-year. Tu Th, 8. Prerequisite: a knowledge of human physiology equivalent to that obtained in course 1.

115. The Physiology of Exercise.

Associate Professor MAXWELL and Mr. MARTIN.

Laboratory practice with occasional informal lectures. The class will be limited to six members who will be selected on the basis of interest and preparation. The effects of exercise on the physiological processes; practice in the use of the ergograph, the plethysmograph; measurement of blood pressure and respiratory quotient.

6 hrs., first half-year; 2 units. M W F, 10-12.

116. Physiology in Secondary Schools. Associate Professor MAXWELL.

Purpose, content and methods of physiology in secondary schools.

1 hr., first half-year. M, 4.

GRADUATE COURSES

212. Research in Physiology.

Associate Professor MAXWELL and Assistant Professor BURNETT.

214. Journal Club.

The STAFF.

Discussion of important advances in physiology, reports of research in the department, and abstracts of current papers. Open only to advanced students who have a reading knowledge of French and German. Application for membership should be made to Professor Maxwell.

1 hr., first half-year. Tu, 5.

**POLITICAL SCIENCE**

\*DAVID P. BARROWS, Ph.D., LL.D., Professor of Political Science.

BERNARD MOSES, Ph.D., LL.D., Professor of History and Political Science,  
Emeritus.

EDWARD ELLIOTT, Ph.D., Professor of International Law and Politics.

\*THOMAS H. REED, A.B., LL.B., Associate Professor of Government.

LUDWIK EHRlich, D.Jur., Lecturer in Political Science.

WILLIAM MACDONALD, Ph.D., LL.D., Lecturer in Political Science.

J. R. DOUGLAS, Ph.D., Instructor in Political Science.

The general prerequisites to courses in the upper division are Political Science 1A and 1B or satisfactory equivalent.

*Honor-students in the Upper Division.*—The department of political science will give honors on the basis of 24 units of work under its control, most of which must be passed with first and second grades. A certain amount of it may be taken in jurisprudence, history, economics or possibly even in other departments. The bulk of it should be chosen from upper division courses in political science. There will not be a rigid prescription of courses, but each applicant's course of studies will be considered on its merits. This should be made up, as completely as possible, at the beginning of the junior year, in consultation with the member of the department designated as Supervisor of Honor-candidates. All schedules are subject to approval by the department as a body.

Course 199 is designated as an Honor-Course in Politics. It is open by special permission to students seeking honors, or other qualified students. The course consists primarily of extensive reading in politics and examination of actual government. Freedom of choice and effort is encouraged. A maximum credit of 4 units a half-year is offered. In addition, honor-students may, and preferably should, in the senior year take the graduate course in political theory.

The final test of the fitness of candidates for distinction takes the form of an oral examination in the last half of the senior year. Written work of each applicant, prepared at any time during the college course, is examined and the general knowledge of government, American and foreign, foreign relations, and political theory, is tested.

**LOWER DIVISION COURSES****1A. Government.**

Professor MACDONALD.

The government and parties of Great Britain, France, Italy, Belgium, and other countries having a parliamentary form of government.  
3 hrs., first half-year. M W F, 3.

**1B. Government.**

Professor MACDONALD.

The government and parties of Switzerland, Austria-Hungary, Germany and the United States.  
3 hrs., second half-year. M W F, 3.

\*Absent on leave, 1917-18.

\*In residence, second half-year only, 1917-18.

UPPER DIVISION COURSES

101. Theory of the State. Professor ELLIOTT.  
An introductory study of the fundamentals of politics.  
2 hrs., first half-year. M W, 2.
102. American Political Institutions. Professor ELLIOTT.  
A study of the origin and development of political institutions in the United States. Recommended for students whose major is political science and for students seeking a major recommendation to teach government in high schools.  
2 hrs., second half-year. M W, 2.
- \*103. The Government of Dependencies. Professor BARROWS.  
A brief general survey of modern colonial government, followed by more detailed study of one or more dependent possessions.  
3 hrs., first half-year. M W F, 9. 1918-19 and alternate years.
- \*105. International Relations: Spanish America. Professor BARROWS.  
Special attention is given to the government and politics of Mexico, Central America, and the Caribbean, and the relations of these regions with the United States.  
3 hrs., first half-year, 1917-18, and alternate years. M W F, 9.
- \*106. International Relations: the Far East. Professor BARROWS.  
Governments of China and Japan; interests and dependencies of European states; American policy in the Orient.  
3 hrs., second half-year, 1917-18, and alternate years. M W F, 9.
- 110A. The Government of Cities. Dr. DOUGLAS.  
The development and present status of the governmental organization and activities of German, French, British, and American cities.  
3 hrs., first half-year. M W F, 2.
- 110B. Municipal Administration. Dr. DOUGLAS.  
The principles and methods according to which cities perform their functions, especially in the United States.  
3 hrs., second half-year. M W F, 2.
- \*112. State Government. ———.  
The first half of the course is based on a study of the government of California. The second half is devoted to party organization and activities.  
3 hrs., second half-year, 1918-1919, and alternate years. M W F, 9.
- 
- \* Not to be given, 1917-18.

**\*115. The Principles and Law of Public Administration.****Professor BARROWS.**

The development of public administration, especially in the United States; the organization of administrative departments, obligations of administrative officers, and the methods by which administrative action is reviewed and controlled.

2 hrs., first half-year. Tu Th, 9.

**117. History of European Political Institutions.****Dr. EHRLICH.**

From the later Middle Ages until modern times.

3 hrs., first half-year. M W F, 3.

**118. Administrative Law of Modern European States.****Dr. EHRLICH.**

3 hrs., second half-year. M W F, 3.

**199A-199B. Honor-course.****The STAFF.**

Throughout the year. Hours to be arranged.

**GRADUATE COURSES**

The scope of instruction in this department includes modern governments, their administration and internal politics; international relations, particularly of the Far East and of Spanish America and the Caribbean; the government of dependencies; state government and administration; local and municipal government in Europe and America; political theories; administrative and legislative methods and problems. Courses in public law are offered in the department of jurisprudence, and candidates for the doctor's degree who offer political science as a major are expected to take courses in Constitutional Law of the United States and International Law, with study of leading cases.

The department is prepared to direct advanced study and research in the following fields: Administrative development in state and municipal government in the western states of the Union; comparative American legislation; the government of the Mexican Republic; the government of American dependencies; international relations in the Pacific; the government of England.

The University Library is equipped for the study of the government and politics of Western Europe, the United States, and Spanish America. Its collections are being added to for the study of the Far East and the Pacific. The Bancroft Library contains extensive materials, which are being increased, for study of the institutions and politics of Spanish North America.

**201A. Political Science.****Professor ELLIOTT.**

A reading course in political writings: Plato's Republic; Aristotle's Politics; Macchiavelli's Prince; Hobbes's Leviathan; Locke's Essays on Government; Montesquieu's Spirit of the Laws; Rousseau's Social Contract.

3 hrs., first half-year. Tu Th, 8:30-10.



201B. Political Science.

Professor ELLIOTT.

The reaction against the doctrines of the eighteenth century, as represented by the writings of De Maistre and Burke; Godwin's Political Justice; Bentham's Fragments on Government, and Principles of Morals and Legislation; Austin's Province of Jurisprudence; Mill's Essay on Liberty and Representative Government; the social and political doctrines of August Comte; Bagehot's Physics and Politics; exponents of scientific anarchism and of state socialism; modern writers, chosen according to preference of the class.

3 hrs., second half-year. Tu Th, 8:30-10.

\*204A-204B. Seminar in Foreign Relations.

Professor BARROWS.

2 hrs., throughout the year. Th, 2-4.

\*205A-205B. Seminar in Administration.

Professor BARROWS.

The seminar as a body makes a study of federal, state, local and municipal administration with special reference to California.

2 hrs., throughout the year. Tu, 2-4.

\*206. The Government of Mexico.

Professor BARROWS.

Investigation of federal, state, and municipal government, and of social and political conditions in the Mexican Republic. A knowledge of Spanish is prerequisite. Students who present doctor's theses in this field should expect to complete their study in Mexico.

First half-year. Hours and credit to be arranged.

\*207. The Government of the Philippines.

Professor BARROWS.

Investigation of the institutions of the Philippines under Spanish and American rule; the policies pursued; the development of the Filipino peoples under these influences. A knowledge of Spanish is required.

Second half-year. Hours and credit to be arranged.

208A-208B. Municipal Government.

Dr. DOUGLAS.

Investigation of actual problems of municipal government with special reference to administration.

2 hrs., throughout the year. W, 4-6.

209A-209B. Seminar in the Public Law of Modern European States.

Dr. EHRLICH.

Weekly papers and theses to be written by members of the class. Special attention will be given to the study of statutes and judicial decisions.

2 hrs., throughout the year; 2 units each half-year. Th, 2-4.

210A-210B. Seminar in the History of European Political Institutions.

Dr. EHRLICH.

Weekly papers and theses to be written by members of the class. Special attention will be given to the study of original sources.

2 hrs., throughout the year; 2 units each half-year. Tu, 2-4.

\* Not to be given, 1917-18.

**PUBLIC HEALTH**

Instruction in the subjects which form the three curricula leading to the degree of Graduate in Public Health, as outlined in the Circular of Information, Academic Departments, is given in the departments listed below. For details regarding courses of instruction the student is referred to the announcements of the departments concerned, and to the Committee on Public Health Study-lists.

**DEPARTMENTS IN BERKELEY**

Agriculture (Entomology, Nutrition, Veterinary Science), Anatomy, Biochemistry and Pharmacology, Civil Engineering, Economics, Hygiene, Pathology and Bacteriology, Physiology, Political Science, and Zoology.

**DEPARTMENTS OF THE MEDICAL SCHOOL IN SAN FRANCISCO**

Clinical Neurology, Dermatology, Laryngology, Legal Medicine, Medicine, Ophthalmology, Orthopedic Surgery, Pediatrics, Surgery, and Urology.

**COMMITTEE ON PUBLIC HEALTH STUDY-LISTS**

Professors LEGGE (chairman), LUCAS, FORCE, and HYDE.

## PUBLIC SPEAKING

MARTIN C. FLAHERTY, Ph.B., Associate Professor of Forensics.

CHARLES D. VON NEUMAYER, Assistant Professor of Public Speaking.

— — —, Lecturer in Vocal Interpretation.

— — —, Instructor in Public Speaking.

GEORGE BOAS, Ph.D., Instructor in Public Speaking.

ANNIE H. ALLEN, M.A., Instructor in Public Speaking.

A. HOWARD HANKEY, A.B., Teaching Fellow in Public Speaking.

*Honor-students in the Upper Division.*—Candidates must arrange their programmes so as to include in their upper division work 8 units in voice culture, 8 units in vocal interpretation, and 8 units in oral expository composition. In applying this rule the department stands ready to modify its provisions to meet exceptional cases. Candidates, for instance, who have been advanced to the honor-status in English will be permitted to offer a certain proportion of major units in that subject in partial satisfaction of the requirement for honors in public speaking.

## LOWER DIVISION COURSES

## 1A-1B. Elements of Public Speaking.

Associate Professor FLAHERTY, Dr. BOAS, Mr. HANKEY,  
and Mr. — — —.

Training in fundamental processes; organization and arrangement of material; practice in speaking.

3 hrs., throughout the year. Seven sections: M W F, 8, 9, 10, 2, 3;  
Tu Th S, 9, 10.

## 2A-2B. Elements of Expression and Interpretation.

Miss ALLEN.

A practical course in reading and speaking. Exercises to establish responsiveness of voice and body. For lower division students only.

3 hrs., throughout the year. Two sections, limited to fifteen each:  
M W F, 8, 10.

## 3A-3B. The Cultivation of the Speaking Voice.

— — —.

A scientific study of the laws governing the speaking voice; elimination of interference and fatigue; diction, enunciation, and pronunciation. Intensive study of selections from standard literature for public performance; simple voice practice in short speeches. Sections limited.

3 hrs., throughout the year. Two sections: Tu Th S, 9, 10.

**4A-4B. Vocal Expression.**

Assistant Professor VON NEUMAYER.

Drill in elocution, reading, and the declamation of original addresses.  
2 hrs., throughout the year. Two sections: Tu Th, 9, 10.

**5A-5B. Second Year Public Speaking.**

Associate Professor FLAHERTY, Dr. BOAS, and Mr. —.

(A) The rhetoric of oral discourse: the definition and division terms, arrangement and sequence of topics; amplification by repetition, illustration, contrast, detail, etc.

(B) Principles of argumentation: analysis of propositions, brief drawing, the nature and kinds of evidence.

2 hrs., throughout the year. Three sections: I, M W, 8; II, M W, 10; III, Tu Th, 8.

**15A-15B. Corrective Work in Voice and Speech.**

Miss ALLEN.

Correction of such faults as nasality, breathiness, feebleness, harshness of voice, speaker's sore throat; lisping, stammering, etc. Control of nervousness. Classes limited to ten.

1 hr., throughout the year. Two sections: Tu, 1; Th, 1.

**UPPER DIVISION COURSES****107A-107B. Oral Interpretation.**

Assistant Professor VON NEUMAYER.

Training in oral expression; a study of the fundamental principles of dramatic reading. Candidates for the teacher's recommendation with English as a major are advised to take this course in order to qualify for the final examination in oral English.

2 hrs., throughout the year. Tu Th, 11.

**109A-109B. Studies in Interpretation.**

— — —.

3 hrs., throughout the year. M W F, 2.

**110A-110B. Third Year Public Speaking.**

Associate Professor FLAHERTY and Dr. BOAS.

(A) Oral Argumentation and Debate. Preparation of briefs; presentation of arguments.

3 hrs., first half-year. Two sections: I, Th, 3-5; II, W, 3-5. Third hour by appointment for supervision of briefs and bibliographies. Prerequisite: course 5A-5B and some preliminary training in vocal expression.

(B) Practice in Extempore Speaking; the Preparation of the Occasional Address.

3 hrs., second half-year. Two sections: W, 3-5; Th, 3-5; third hour by appointment. Open to students selected from 110A. Students are advised to follow this course with English 121E-121F, Oral Debates on Literary Topics.

- 111A-111B. Elements of Expression and Interpretation. Miss ALLEN.  
The material of course 2A-2B adapted to the needs of upper division students who have had no previous training in expression. Class limited to twenty.  
2 hrs., throughout the year. Tu Th, 3.
- 112A-112B. Expression and Interpretation: Advanced Course. Miss ALLEN.  
2 hrs., throughout the year. Tu Th, 2. Sections limited to fifteen each.  
Prerequisite: course 2A-2B, or its equivalent.
- 114A-114B. Bible Reading. — — —.  
A careful study of selected portions of the Old and the New Testaments with a view to their effective rendering orally.  
2 hrs., throughout the year. M W, 11.
- 116A-116B. Advanced training for qualified students who are preparing for public platform work. — — —.  
3 hrs., throughout the year. M W F, 3.
- 117A. Extemporaneous Discourse. Assistant Professor VON NEUMAYER.  
Exercises in the presentation of extemporaneous speeches on specific questions drawn from a familiar central topic. Training in structure and delivery. Class limited to fifteen students.  
2 hrs., first half-year. Tu, 3-5. Prerequisite: courses 1A-1B, 5A-5B, and the permission of the instructors.
- 118A-118B. Acting as an Art and as a Method of Interpretation. Assistant Professor VON NEUMAYER.  
The psychology of acting; the cultivation and development of the dramatic instinct through character portrayal. Study and presentation of selected one-act plays. Open to students who have the permission of the instructor.  
3 hrs., throughout the year. Sec. I, M, 10-12, W, 10; Sec. II, Th, 7-9 p.m., and a third hour to be arranged.

## GRADUATE COURSES

- 210A-210B. Practical Bibliography and the Use of the Library. Associate Professor FIAHERTY.  
Designed to meet the needs of prospective teachers of debating.  
2 hrs., throughout the year. Alt. F, 11, and a second hour to be arranged.
- 220A-220B. Expression and Interpretation: A Course for Teachers. Miss ALLEN and — — —.  
A review and discussion of methods, with special reports and criticisms of text-books.  
2 hrs., throughout the year, to be arranged.

## ROMANIC LANGUAGES

<sup>1</sup>RUDOLPH SCHEVILL, Ph.D., Professor of Spanish.

GILBERT CHINARD, L. ès L., Professor of French.

GUSTAVE FAUCHEUX, B. ès L., B. ès Sc., Associate Professor of French Literature.

JOHN T. CLARK, Ph.D., Assistant Professor of Romanic Philology.

CARLOS BRANSBY, M.A., Litt.D., Assistant Professor of Spanish.

PERCIVAL B. FAY, Ph.D., Assistant Professor of Romanic Philology.

LESLIE M. TURNER, D. ès L., Assistant Professor of French.

S. GRISWOLD MOBLEY, Ph.D., Assistant Professor of Spanish.

RAMON JAÉN, Assistant Professor of Spanish.

ALFRED SOLOMON, M.A., Instructor in French.

CAROLINE B. SINGLETON, M.A., Instructor in French.

EMILIO GOGGIO, M.A., Instructor in Italian.

WILLIAM GIRARD, Ph.D., Instructor in French.

JOHN A. MAGNI, Ph.D., Instructor in French.

ELIZABETH MCGUIRE, M.A., Instructor in Spanish.

MALBONE W. GRAHAM, D.D., Instructor in Spanish.

LOUIS BARNIER, A.B., Instructor in French.

BEATRICE Q. CORNISH, M.A., Assistant in Spanish.

RAFAEL ECHEVERRIA, A.B., Assistant in Spanish.

EUGENE JORALEMON, A.B., Assistant in Romanic Languages.

No student will be permitted to begin more than one Romanic language in any one half-year.

*Honor-students in the Upper Division.*—No student will be admitted to candidacy who has not creditably completed all the lower division courses in his proposed major subject, or the equivalent of these courses. The candidate's record for each half-year must include at least sixty per cent of first and second grades in all courses, and work done in the department of Romanic languages must be first-grade work. The candidate must furthermore give evidence of real linguistic ability. Honor-students will be under the immediate supervision of a special committee appointed by the department. Each instructor will devote special attention to the honor-candidates who are in his courses, and direct their work along lines of general reading in connection with their major subject. Candidates will be encouraged to make extensive use of the library facilities.

The 24 units of upper division work which is controlled by the department must ordinarily include some courses in a Romanic language other than that of the major subject. Particular stress will be laid upon advanced composition and the elements of historical grammar. In addition to work done in courses, the candidates will be required to pass a final oral or written examination, in which they must demonstrate a reasonable acquaintance with the literature and historical background of their major subject, an exact knowledge of the grammar, and an ability to express themselves clearly in the language of the major subject.

<sup>1</sup> In residence first half-year only.

**FRENCH**

**LOWER DIVISION COURSES**

**AB. Elementary French.**

Assistant Professor FAY, Mr. SOLOMON, Dr. MAGNI,  
Miss SINGLETON, and Mr. BARNIER.

Stress is laid on accurate pronunciation, on the essentials of grammar, and on careful translation into idiomatic English of simple French prose. The equivalent of matriculation subject 15a<sup>2</sup>.

5 hrs., either half-year. First half-year: M Tu W Th F, 8, 9, 10, 1, 2;  
second half-year: M Tu W Th F, 8, 1, 2.

**CD. Elementary French (Continuation of AB).**

Assistant Professors FAY and TURNER, Mr. SOLOMON, Miss SINGLETON, Dr. GIRARD, Dr. MAGINI, and Mr. BARNIER.

Further study of grammar, especially syntax. Reading of contemporary French prose, plays, and some verse; conversation and composition. The equivalent of matriculation subject 15a<sup>4</sup>.

5 hrs., either half-year. First half-year: M Tu W Th F, 8, 10, 1, 2;  
second half-year: M Tu W Th F, 8, 9, 10, 1, 2. Students will continue under the same instructor and in the same section as in AB. Changes in section may be made only by permission of the head of the department.

**E-F. Intermediate French.**

Assistant Professors CLARK, TURNER, and FAY.

A detailed study of syntax; dictation and memorizing of prose and verse; selections from novels and historical texts. The equivalent of matriculation subject 15a<sup>4</sup>.

3 hrs., throughout the year. M W F, 8, 9, 10. [Section II at 9 o'clock, Professor TURNER, open only to candidates for the teacher's recommendation and to students who intend to have a major in French; limited to twenty-five, admitted by special permission of the instructor.] Prerequisite: courses AB, CD or credit for matriculation subject 15a<sup>4</sup>, or its equivalent, or a special examination.

**EF. Intermediate French (Continuation of CD of first half-year).**

Assistant Professor TURNER, Mr. SOLOMON, Dr. GIRARD,  
and Assistants.

Syntax, conversation, and rapid reading.

5 hrs., second half-year. M Tu W Th F, 8, 1, 2.

## UPPER DIVISION COURSES

## 103A-103B. The Nineteenth Century.

Professor CHINARD, Associate Professor FAUCHEUX, Assistant Professor CLARK, and Dr. GIBARD.

A detailed study of standard authors, prose and verse, with dictation and reports on assigned themes, conducted mainly in French. Candidates will be admitted only by special permission, after consulting one of the above instructors.

3 hrs., throughout the year. M W F, 9, 10, 1, 2. Prerequisite: course E-F or EF or credit for matriculation subject 15a\*, or its equivalent, or a special examination.

## 106A-106B. Grammar and Conversation.

Assistant Professor CLARK and Mr. SOLOMON.

Exercises in written and oral expression. It is advisable to take this course in connection with course 103A-103B. Special permission to enroll must be obtained from one of the above instructors.

2 hrs., throughout the year. Tu Th, 9, 11. Prerequisite: same as for course 103A-103B.

## 107A-107B. A Survey of French Literature.

Professor CHINARD.

A study of the principal writers with selections from their most important works. Conducted mainly in French and open only to seniors.

2 hrs., throughout the year. Tu Th, 9.

## 112A-112B. The Nineteenth Century Drama.

Assistant Professor TURNER.

A survey of the dramatic production of French Romanticism. Conducted mainly in French.

3 hrs., throughout the year. M W F, 8.

## 117A-117B. Teachers' Course.

Assistant Professor TURNER.

Methodology, bibliography, analysis of French texts, study of style.

For those who intend to teach or prepare for advanced studies. Open only to seniors and graduates.

2 hrs., throughout the year. Tu Th, 11.

## 120A-120B. Classical Drama.

Associate Professor FAUCHEUX.

(A) Corneille and Racine, with collateral study of Descartes and Pascal.

(B) Molière and the comedy of character; brief consideration of La Fontaine and La Bruyère.

3 hrs., throughout the year. M W F, 9.

## 129A-129B. Special Study.

The STAFF.

Any instructor in Romanic languages will advise and assist students who propose to undertake special advanced study.



**130A-130B. Grammar, Composition, and Conversation. First Course.**

Assistant Professor FAY.

2 hrs., throughout the year. Tu Th, 10. Prerequisite: section II of E-F (TURNER), or special permission of the instructor; chiefly for candidates for the teacher's recommendation.

**130C-130D. Studies in French Style and Practice in Composition. Second Course.**

Professor CHINARD.

2 hrs., throughout the year. Tu Th, 10. Prerequisite: first or second grade in course 130A-130B, or special permission of the instructor.

**\*132A-132B. Outline of the History of the French Language.**

Assistant Professor CLARK.

2 hrs., throughout the year. Tu Th, 11. Prerequisite: course 103A-103B, or 106A-106B, or 130A-130B. Alternates with 134.

**134A-134B. The Syntax of the Seventeenth Century.**

Assistant Professor FAY.

2 hrs., throughout the year. Tu Th, 11. Prerequisite: course 103A-103B, or 106A-106B, or 130A-130B. Alternates with 132.

**136A-136B. History and Literature.**

Mr. JORALEMON.

The historical background of the chief periods of the Romanic literatures. Reading and reports. For candidates for the teacher's recommendation.

1 hr., throughout the year. W, 1.

---

**SPANISH**

(See introduction to the corresponding division in French.)

**AB. Elementary Spanish.**Miss MCGUIRE, Dr. GRAHAM, Mrs. CORNISH, Mr. ECHEVERRIA,  
and Assistants.

Stress is laid on accurate pronunciation, Castilian being the standard, on the essentials of grammar, and on careful translation into idiomatic English of simple Spanish prose. The equivalent of matriculation subject 15c<sup>2</sup>.

5 hrs., either half-year. First half-year: M Tu W Th F, 8, 9, 10, 1, 2;  
second half-year: M Tu W Th F, 8, 1, 2.

---

\* Not to be given, 1917-18; given in alternate years.

**CD. Elementary Spanish (Continuation of AB.)**

Professor SCHEVILL, Miss MCGUIRE, Dr. GRAHAM, Mrs. CORNISH,  
Mr. ECHEVERRIA, and Assistants.

Further study of grammar, especially syntax. Reading of contemporary Spanish prose, plays and some verse. Conversation and composition. The equivalent of matriculation subject 15c<sup>1</sup>.

5 hrs., either half-year. First half-year: M Tu W Th F, 8, 9, 1, 2: second half-year: M Tu W Th F, 8, 9, 10, 1, 2. Students will continue under the same instructor and in the same section as in AB. Changes in section may be made only by permission of the head of the department.

**E-F. Intermediate Spanish.**

Assistant Professors MORLEY and JAÉN and Miss MCGUIRE.

A detailed study of syntax, dictation and memorizing of prose and verse; conversation; selections from modern texts. The equivalent of matriculation subject 15c<sup>1</sup>. Conducted chiefly in Spanish.

3 hrs., throughout the year. M W F, 9, 1, 2. Prerequisite: courses AB, CD, or credit for matriculation subject 15c<sup>1</sup> or its equivalent, or a special examination.

**EF. Intermediate Spanish (continuation of CD of first half-year). Syntax, conversation, and rapid reading.**

5 hrs., second half-year. M Tu W Th F, 8, 1, 2.

**UPPER DIVISION COURSES****A. PRIMARILY FOR JUNIORS****103A-103B. The Nineteenth Century. Assistant Professor MORLEY.**

A detailed study of standard authors, prose and verse with dictation and reports on assigned themes. Limited to forty students, admitted by special permission of instructor only.

3 hrs., throughout the year. M W F, 10. Prerequisite: course E-F, or credit for matriculation subject 15c<sup>1</sup>, or its equivalent, or a special examination.

**B. FOR JUNIORS AND SENIORS****105A-105B. The Modern Drama.**

Assistant Professor MORLEY and Miss MCGUIRE.

A study of the chief plays of the most recent playwrights: Echegaray, Benavente, Galdós, the Quintero brothers, etc.

2 hrs., throughout the year. Two sections: I, Tu Th, 10; II, Tu Th, 2. Limited to thirty students in a section, admitted by special permission of the instructor.

106A-106B. Conversation and Composition.

Professor SCHEVILL and Assistant Professor JAÉN.

Advanced written and oral expression.

3 hrs., throughout the year. M W F, 8, 9, 10.

C. PRIMARILY FOR SENIORS

107A-107B. A Survey of Spanish Literature. Assistant Professor MORLEY.

A study of the principal writers with selections from their most important works; lectures; reports to be made by the students on work assigned. Students are admitted only by special permission of instructor. Both 107A and 107B are required of candidates for the teacher's recommendation with Spanish as a major.

2 hrs., throughout the year. Tu Th, 9.

108A-108B. Spanish Prose and Verse.

Assistant Professor JAÉN.

A study of fiction, drama and lyric poetry, chiefly of the nineteenth century.

3 hrs., throughout the year. M W F, 2.

129. Special Study.

Professor SCHEVILL.

For students who wish to undertake special advanced work and to learn how to use the library.

First half-year. By appointment.

136A-136B. Required for the teacher's recommendation. See course 136 above under French.

---

ITALIAN

(See introduction to the corresponding division in French.)

LOWER DIVISION COURSES

AB-CD. Elementary Italian.

Mr. GOGGIO.

Essentials of grammar. Short stories by contemporary writers.

5 hrs., throughout the year. M Tu W Th F, 8.

E-F. Intermediate Italian.

Mr. GOGGIO.

A detailed study of syntax; dictation and memorizing of prose and verse; conversation; selections from modern texts.

3 hrs., throughout the year. M W F, 9. Prerequisite: course AB-CD.

## UPPER DIVISION COURSES

- 103A-103B. The Nineteenth Century. Mr. GOGGIO.  
 A detailed study of standard authors, prose and verse, with dictation and reports on assigned themes.  
 3 hrs., throughout the year. M W F, 10. Prerequisite: course E-F, or its equivalent, or a special examination.
- \*105A-105B. The Fifteenth and Sixteenth Centuries. Mr. GOGGIO.  
 A study of the chief writers of this period, with lectures and reports by the students.  
 2 hrs., throughout the year, to be arranged.
- 107A-107B. A Survey of Italian Literature. Mr. GOGGIO.  
 A study of the principal writers with selections from their most important works.  
 2 hrs., throughout the year, to be arranged.

## GRADUATE COURSES

Students who enter the graduate division with the purpose of taking an advanced degree in the department of Romanic languages must have a good reading knowledge of Latin and German. They are also requested to attend the following course:

- Romanic Seminar. A review of the most recent books bearing on the Romanic languages and literatures.  
 1 hr., fortnightly. F, 11 (alternating with the University meetings).

## FRENCH

- 201A-201B. Modern French Literature. Professor CHINARD.  
 A detailed study of some important French writers.  
 2 hrs., throughout the year. M, 3-5.
- 212A-212B. Historical French Grammar. Assistant Professor CLARK.  
 Investigation in special topics.  
 2 hrs., throughout the year. to be arranged. Prerequisite: course 132A-132B and a reading knowledge of German.
- 220A-220B. Survey of Medieval French Literature. Associate Professor FAUCHEUX.  
 Lectures, assignments, and written reports twice a month.  
 2 hrs., throughout the year. M W, 4.

\* Not to be given, 1917-18.

225A-225B. Old French.

Associate Professor FAUCHEUX.

Rapid reading: *Chanson de Roland*; *Aucassin et Nicolette*; *Lais* of Marie de France.

2 hrs., throughout the year. Th, 4-6. Prerequisite: permission of the instructor.

229A-229B. For students who wish to undertake special advanced work in French. Professor CHINARD.

Hours and credit to be arranged.

231A-231B. Seminar in French Literature.

Professor CHINARD.

Literary investigation.

2 hrs., throughout the year. W, 4-6.

### SPANISH

201A. Methods of Investigation.

Professor SCHEVILL.

1 hr., first half-year, to be arranged.

\*203A-203B. Cervantes.

Professor SCHEVILL.

2 hrs., throughout the year. During weeks in which University meetings are held, M W, 11; other weeks, W F, 11.

205A-205B. Masterpieces of the Sixteenth and Seventeenth Centuries.

Assistant Professor MORLEY.

2 hrs., throughout the year. W F, 5.

\*208B. The Spanish Ballad.

Assistant Professor MORLEY.

1 hr., second half-year, to be arranged. Given in alternate years.

229A. For students who wish to undertake special advanced work in Spanish. Professor SCHEVILL.

Hours and credit to be arranged.

Attention is called to German 208A-208B (Spanish Influences upon German Literature in the Seventeenth and Eighteenth Centuries.)

### ITALIAN

201A-201B. Dante, Petrarch, and Boccaccio.

Mr. GOGGIO.

2 hrs., throughout the year, to be arranged.

\* Not to be given, 1917-18.

**SANSKRIT**

ARTHUR W. RYDER, Ph.D., Assistant Professor of Sanskrit.

**UPPER DIVISION COURSES****MAJOR COURSES**

- 101A-101B. Elementary Sanskrit. Assistant Professor RYDER.  
Perry's Primer, Whitney's Grammar, Lanman's Reader. Grammar, composition, and reading.  
3 hrs., throughout the year. M W, 11, and a third hour to be arranged.
- 102A-102B. Second-year Sanskrit. Assistant Professor RYDER.  
Rapid reading of classical texts: the fables of the Hitopadeṣa, selections from the Kathāsaritsāgara and Daṣakumāracarita.  
3 hrs., throughout the year, to be arranged.
- 103A-103B. Advanced Classical Sanskrit. Assistant Professor RYDER.  
(A) Reading of more difficult texts and study of their position in the literature: the Epigrams of Bhartrihari; the Meghadūta of Kālidāsa. (B) Introduction to the drama and to the Prākṛit languages: the Ṣakuntalā of Kālidāsa; the Mṛicchakatika of Cūdraka.  
3 hrs., throughout the year, to be arranged.  
The reading matter of courses 102A-102B and 103A-103B may be varied in accordance with the tastes and purposes of the students.

**SANSKRIT LITERATURE—FREE ELECTIVE COURSES**

The following courses do not require a knowledge of any Indian language, and are open to all students of the upper division. Together, they aim to give an outline history of Sanskrit literature, but any one of them may be taken independently.

20. The Veda and the Philosophical Systems. Assistant Professor RYDER.  
Lectures and reading. An outline of Vedic literature; the earlier forms of Brahmanism; the development of ritualism and philosophy; the revolt which found expression in Buddhism and Jainism, the struggle between Brahmanism and Buddhism, and the rise of Hinduism.  
2 hrs., first half-year. Tu Th, 11.

**21. Classical Sanskrit Literature.****Assistant Professor RYDER.**

Lectures and reading. Outline of the great epics and of the classical literature, exclusive of the drama: The Mahābhārata; the Rāmāyana; the Kāvya's (minor epics); lyric and elegiac poetry; novels and romances; fables and epigrams; the law books; rhetoric and poetics; scientific literature.

2 hrs., second half-year. Tu Th, 11.

**GRADUATE COURSE****220. The Veda and the Philosophical Systems.****Assistant Professor RYDER.**

An expansion of course 20 with added reading and the preparation of a thesis.

2 hrs., first half-year; 4 units. Tu Th, 11.

**SEMITIC LANGUAGES**

**WILLIAM POPPER, Ph.D., Associate Professor of Semitic Languages.**

**MARTIN A. MEYER, Ph.D., Lecturer in Semitic Literature and History.**

*Language Courses*

The specific courses given in any year, the hours therefor, and the authors read, will depend upon the needs of the students. All courses except elementary courses may be repeated without duplication of credit and by agreement may be counted as graduate work; all are year courses, and open to any properly qualified student; excepting course 107A-107B, they will be given by Professor Popper.

Hebrew. Elementary (3A-3B, 3 hrs.); Second Year (104A-104B, 2 hrs.); Exegetical (206A-206B, 2 hrs.); Mishnaic (107A-107B, 1 hr., Tu, 1, Dr. Meyer); Medieval (207A-207B, 2 hrs.).

Arabic. Elementary (113A-113B, 2 hrs.); Prose (214A-214B, 2 hrs.); Koran and Poetry (215A-215B, 2 hrs.).

Syriac. Elementary (111A-111B, 2 hrs.); Advanced (212A-212B, 2 hrs.). Seminar (220A-220B, 2 hrs.).

*Lecture Courses*

Free elective courses not requiring a knowledge of any Semitic language.

7A-7B. History of the Hebrew Religion.

**Dr. MEYER.**

1 hr., throughout the year. Tu, 1.

8A-8B. The Second Hebrew Commonwealth.

**Dr. MEYER.**

The history and literature of the Hebrews in Palestine after the return from the captivity (536 B.C.).

1 hr., throughout the year. Tu, 2.

9A-9B. The Diaspora.

**Dr. MEYER.**

The life and letters of the Jews after the fall of Jerusalem (70-1492 A.D.).

1 hr., throughout the year. Tu, 3.

10A-10B. Modern Jewish History.

**Dr. MEYER.**

1 hr., throughout the year. Tu, 4.

25. Mohammedanism.

**Associate Professor POPPER.**

2 hrs., either half-year; 1 unit. Tu Th, 11.



# SLAVIC LANGUAGES

GEORGE R. NOYES, Ph.D., Associate Professor of Slavic Languages.

ZDENKA BUBEN, A.B., Assistant in Bohemian.

ALEXANDER S. KAUN, Ph.B., Assistant in Russian.

MILUTIN KRUNICH, Assistant in Serbo-Croatian.

*Honor-students in the Upper Division.*—Candidates for honors must do 24 units of upper division work in the department, of which at least 16 must be of first grade. The 24 units must include at least 18 units of work in one Slavic language and also either course 160, course 162 or (with the approval of the department), course 199.

## LOWER DIVISION COURSES

1A-1B. Elementary Russian.

Associate Professor NOYES.

Bondar, Simplified Russian Method. Boyer and Speranski, Russian Reader. Practice in conversation.

3 hrs., throughout the year. M W F, 1.

6A-6B. Elementary Polish.

Associate Professor NOYES.

Baluta, Practical Handbook of the Polish Language. Reading of Sienkiewicz and Mickiewicz.

3 hrs., throughout the year, to be arranged.

10A-10B. Elementary Serbo-Croatian.

Mr. KRUNICH.

Petrovitch, Servian Conversation-Grammar. Reading of easy texts.

3 hrs., throughout the year. M W F, 1.

15A-15B. Elementary Bohemian.

Miss BUBEN.

Jonas, Bohemian Made Easy. Beneš, Česká, čítanka.

3 hrs., throughout the year. M W F, 2.

By special arrangement with the Department, any one of the above four courses, with assigned readings in the history of Slavic literature, may be counted as work of the upper division. In such cases the student should register for course 101A, 106A, and the like, instead of in course 1A, 6A, etc.

18. Russian Conversation.

Mr. KAUN.

Practice in elementary Russian conversation and composition.

2 hrs., first half-year; 1 unit. Tu Th, 11. Open only to those who are taking or have taken Russian 1A; not open to students entering the University from schools in the Russian Republic.

## UPPER DIVISION COURSES

## MAJOR COURSES

- 102B. Second-year Russian. Mr. KAUN.  
 Tolstoy, Anna Karenin. Practice in conversation.  
 2 hrs., second half-year. Tu Th, 11.
- 102A. Second-year Russian. Associate Professor NOYES.  
 Continuation of Russian 102B. Forbes, Russian Grammar.  
 3 hrs., first half-year. M W F, 8.
- 103B. Third-year Russian. Associate Professor NOYES.  
 Reading of modern prose and poetry.  
 3 hrs., second half-year. M W F, 8.
- 105A-105B. Russian Poetry. Mr. KAUN.  
 Reading of Pushkin and Griboyedov.  
 2 hrs., throughout the year. Tu Th, 10.
- 111A-111B. Second-year Serbo-Croatian. Mr. KRUNICH.  
 Reading of prose and poetry. Exercises in conversation and composition.  
 3 hrs., throughout the year, to be arranged.
- 119A-119B. Russian Composition. Mr. KAUN.  
 Exercises in translation from English into Russian and in original composition in Russian.  
 1 hr., throughout the year, to be arranged.

## FREE ELECTIVE COURSES

The following courses do not require a knowledge of any language other than English, and are open to all students of the upper division. By special arrangement with the instructor, they may be taken as major courses in Slavic literature. In such cases the students should register in course 120 or 122.

20. The Russian Novelists. Associate Professor NOYES.  
 Lectures and reading. Authors: especially Tolstoy; also Pushkin, Gogol, Turgenyev, Dostoyevsky, Gorky, and others.  
 3 hrs., first half-year. M W F, 3.
22. Slavic Literature. Associate Professor NOYES.  
 Lectures and reading. A brief account of the literature and folklore of Poland, Bohemia, Servia, and Bulgaria.  
 3 hrs., second half-year. M W F, 3.

HONOR-COURSES IN SLAVIC LITERATURE

160. The Life and Work of Leo Tolstoy. Associate Professor NOYES.  
Special assignments in connection with the work of course 20.  
3 hrs., first half-year; 5 units. M W F, 3.
162. Polish Romanticism. Associate Professor NOYES.  
Special assignments in connection with the work of course 22.  
3 hrs., second half-year; 5 units. M W F, 3.
- 199A-199B. Individual Work. Associate Professor NOYES.  
Candidates for honors and graduate students will be offered opportunities for independent reading and study. Credit will not exceed four units a half-year.

GRADUATE COURSES

The University library offers ample material for advanced study of Russian literature and philology, and for the comparative study of the Slavic languages.

- 231A. Old Church Slavic. Seminar. Associate Professor NOYES.  
Leskien, Handbuch der altpulgarischen Sprache and Grammatik der altpulgarischen Sprache. Study of the relations of Old Church Slavic to the other Indo-European languages.  
3 hrs., first half-year, to be arranged.
- 232B. Historical Russian Grammar. Seminar. Associate Professor NOYES.  
Reading of Buslayev, Russkaya Hrestomatiya. Study of the development of the Russian language and of its relations to the other Slavic languages.  
3 hrs., second half-year, to be arranged. Prerequisite: course 231A.
299. Individual Work. Associate Professor NOYES.  
Graduate students will be offered opportunities for independent reading and study. Credit will not exceed 4 units a half-year.

**ZOOLOGY**

CHARLES A. KOFOID, Ph.D., Sc.D., Professor of Zoology, and Assistant Director of the Scripps Institution for Biological Research.

\*WILLIAM E. RITTER, Ph.D., Scientific Director of the Scripps Institution for Biological Research and Professor of Zoology.

JOHN C. MERRIAM, Ph.D., Professor of Palaeontology and Historical Geology.

SAMUEL J. HOLMES, Ph.D., Professor of Zoology.

J. FRANK DANIEL, Ph.D., Associate Professor of Zoology.

JOSEPH GRINNELL, Ph.D., Associate Professor of Zoology and Director of the California Museum of Vertebrate Zoology.

JOSEPH A. LONG, Ph.D., Assistant Professor of Embryology.

WILLIAM W. CORT, Ph.D., Assistant Professor of Zoology.

ALBERT L. BARROWS, Ph.D., Instructor in Zoology.

HAROLD C. BRYANT, Ph.D., Economic Ornithologist, California Museum of Vertebrate Zoology.

ROFENA LEWIS, A.B., Research Assistant in Zoology.

CHARLES V. TAYLOR, M.A., Teaching Fellow in Zoology.

A. REMINGTON KELLOGG, M.A., Teaching Fellow in Zoology.

PIRIE DAVIDSON, M.A., Teaching Fellow in Zoology.

ERIK G. MOBERG, M.S., Teaching Fellow in Zoology.

RALPH H. SMITH, A.B., Teaching Fellow in Zoology.

JAMES B. ROGERS, M.A., Teaching Fellow in Zoology.

WILLIAM F. HAMILTON, A.B., Assistant in Zoology.

The courses are designed to meet the needs of various classes of students. For certain specific ends the following recommendations are made:

(1) Students planning to specialize in zoology should complete courses 1A and 1B as early in their course as is feasible. These courses are prerequisite to major work, and, except as noted below, to all courses in the department. The following grouping of courses is recommended: (I) 106 or 107 or 103, 103c and 108; (II) 110, 110c and 111, 111c; (III) 114 and 115; (IV) 112 and 113.

(2) For general students, courses 1A, 1B, 10, 103, 103c, 104, 107, 108, 109, 110, 110c, 111, 111c, 112, 113, 114, 115, and 20.

(3) For students planning to study medicine, courses 1A, 1B, 4, 103, 103c, 106, 107, 108, 110, 110c, 111, 111c, 114, 115.

(4) For non-biological students, courses 10, 20, 104, 114, and 115.

\* On duty in Berkeley only during the last ten weeks of the second half-year.

Students planning to enter instruction or research in zoology as a profession should not only lay a broad foundation in the courses in zoology but should also include at least the fundamental courses in chemistry and physics in their course of study. Courses in botany, physiology, palaeontology, and entomology may be included to advantage, and a reading knowledge of German and French is essential. Research in biometrics requires a knowledge of higher mathematics (Mathematics 120) and statistical methods (Economics 140).

Students who intend to do advanced work in zoology should take the Subject B examination in German, French or Latin.

*Honor-students in the Upper Division.*—To honor-students whose major is zoology the department offers closer supervision of their work, larger facilities in material and equipment, and wider latitude in selection of subject-matter. Its purpose is to foster initiative and independent effort. Honor-students may select a member of the staff as adviser. Guidance in a selected course of reading will be afforded. A major in Zoology should include any two of the groups of courses listed under (1) above. The remainder of the 24 major units may include any major courses in Zoology. Major courses in allied natural sciences will be accepted to the extent of not to exceed 8 units when approved by the department.

## LOWER DIVISION COURSES

### 1A. General Zoology.

Professors KOFROID and HOLMES, Associate Professor DANIEL, Assistant Professors LONG, CORT, Dr. BARROWS, and Assistants.

An introduction to the facts and principles of animal biology, with special reference to the structure, functions, and evolution of animal life.

Lectures, 2 hrs., laboratory, 4 hrs., first half-year; 4 units. Lectures, Tu Th, 10; laboratory sections: I, M W, 8-10; II, M F, 2-4; III, Tu Th, 8-10; IV, Tu Th, 2-4; V, W, 2-4; S, 9-11 or 10-12.

The laboratory exercises are essentially illustrative of lectures and are based on the examination of living and prepared specimens, supplemented by models and charts. Professor Cort in charge.

### 1B. General Zoology.

Associate Professor DANIEL and Assistants.

A continuation of course 1A. The behavior, structure, and development of animal types, with special reference to the lower vertebrates.

6 hrs., second half-year; 4 units. Lectures, Tu Th, 10; laboratory, three sections: I, Tu Th, 8-10; II, Tu Th, 2-4; III, W, 2-4, S, 9-11. Prerequisite: course 1A.

### 4. Microscopical Technique.

Assistant Professor LONG.

Preparation of animal tissues for microscopical examination; use of microscope and microtome; methods of fixation, sectioning, and staining. Laboratory and reading.

3 hrs., second half-year; 1 unit. W, 8-11. Prerequisite: course 1A and elementary chemistry.

**10. General Biology.**

Professors KOFOD and HOLMES.

An outline of the main facts and principles of animal biology with special reference to evolution, heredity, eugenics, and the bearing of biology upon human life. Lectures with demonstrations, conferences, assigned readings, and reports.

3 hrs., second half-year. Lectures, Tu Th, 8. Conferences, four sections: I, Th, 9; II, F, 8; III, F, 9; IV, S, 9. Open without prerequisite to all students, but designed primarily for those not specializing in zoology.

**UPPER DIVISION COURSES****MAJOR COURSES****103. Experimental Zoology.**

Associate Professor DANIEL.

An experimental study of the fundamental properties of living substance, including its development, its growth and regeneration, and an application of the transplantation of living tissues.

2 hrs., first half-year. W F, 9. Prerequisite: courses 1A and 1B.

**103c. Experimental Zoology.**

Associate Professor DANIEL.

Laboratory experiments closely correlated with the lectures of course 103.

6 hrs., second half-year; 2 units. M W, 1-4 or 2-5. Prerequisite: course 103.

**104. Animal Behavior.**

Professor HOLMES.

The tropisms, instincts, and intelligence of animals, and the general evolution of the animal mind.

2 hrs., first half-year. Tu Th, 4.

**106. Comparative Anatomy of the Higher Vertebrates.**

Professor MERRIAM, Dr. BARROWS, and Assistant.

Comparative osteology (under Professor MERRIAM), dissection of a reptile, a bird, and a mammal, and lectures and recitations on the organology of vertebrates.

8 hrs., first half-year; 4 units. Lectures and recitations, Tu Th, 4. Laboratory, section I, M F, 1-4; III, Tu Th, 1-4. Prerequisite: courses 1A and 1B. Students in Zoology 106 may take the lectures of Palaeontology 104 without the laboratory work (1 unit).

**107. Cytology.**

Assistant Professor LONG.

Structure, activities, and chemistry of the cell; cell-division, maturation of the sex cells, fertilization, parthenogenesis, and cleavage; relation of cytological phenomena to normal and abnormal growth, to differentiation, to sex, and to theories of heredity and evolution.

8 hrs., first half-year; 4 units. Lectures, Tu Th, 9; laboratory, Tu Th, 1-4. Prerequisite: course 1A.

- 108. Embryology.** Assistant Professor LONG.  
The phenomena of animal development, fundamental facts of reproduction, comparative embryology and organogeny of the higher vertebrates. Lectures, reading, and laboratory.  
8 hrs., second half-year; 4 units. Lectures, Tu Th, 9; laboratory, two sections: I, Tu Th, 8-9, 10-12; II, Tu Th, 1-4. Prerequisite: courses 1A and 1B.
- \*109. Biology of Water.** Professor KOROID and Dr. BARROWS.  
Biological problems of the microscopic life of fresh water and of the sea from the distributional, ecological, and experimental standpoints. Laboratory, field work, and thesis.  
6 hrs., second half-year; 2 units. W F, 1-4. Prerequisite: course 1A.
- 109c. Biological Examination of Water.** Professor KOROID and Dr. BARROWS.  
The biology of waters of reservoirs and streams, with special reference to water supply and sewage disposal. A field and laboratory course dealing with the microscopic organisms of fresh water, other than bacteria, their occurrence, distribution, and control, and their relation to problems of sanitary engineering.  
3 hrs., second half-year; 1 unit. F, 1-4. Prescribed, in the third year of the sanitary course, College of Civil Engineering. Open to students of household science.
- 110. Protozoology.** Professor KOROID.  
Structure, life-history, and ecology of the protozoa with reference to the problems of biology; the relations of protozoa to disease in man and other animals. Reports on assigned topics.  
2 hrs., first half-year; M W, 8. Prerequisite: course 1A. Students in public health and veterinary science with adequate biological training will also be admitted.
- 110c. Protozoology Laboratory.** Professor KOROID and —.  
3 or 6 hrs., first half-year; 1 or 2 units. M F, 1-4. Prerequisite: course 1A; course 110 should be taken concurrently.
- 111. General Parasitology.** Assistant Professor CORT.  
A general biological discussion of the relations of animals to the causation and transmission of disease, with special reference to the animal parasites of man and the domesticated animals; the methods of biological prevention and control. Lectures and reports on assigned topics.  
2 hrs., second half-year. M W, 8. Prerequisite: course 1A. Students of public health, and household or veterinary science who have had adequate biological training will also be admitted.

---

\* Not to be given, 1917-18.

## 111c. The Morphology and Life-history of Animal Parasites.

Assistant Professor COBT.

3 or 6 hrs., laboratory, second half-year; 1 or 2 units. M W, 1-4.  
Prerequisite: course 1A. Course 111 should be taken concurrently.

## 112. Advanced Invertebrate Zoology.

Dr. BARROWS.

The morphology, habitats, habits, and life-histories of the invertebrates, with special reference to local fauna, both marine and fresh-water. Lectures, readings, reports, and laboratory and field work.

7 hrs., second half-year; 3 units. Lectures, W, 9; laboratory, 6 hrs. to be arranged. Prerequisite: course 1A.

## 113. Advanced General Vertebrate Zoology.

Associate Professor GRINNELL and Dr. BRYANT.

A systematic and faunistic study of the birds, mammals, and reptiles of California, including a brief treatment of the amphibians and fishes. Lectures, field, laboratory, and museum work, with papers on assigned topics.

7 hrs., second half-year; 3 units. Th, 1-4; S, 8-12. Prerequisite: course 1A. Courses 1B and 106 are also recommended.

## 114. Heredity and Evolution.

Professor HOLMES.

A discussion of the facts of heredity; Mendel's law and its applications; the development of theories of evolution since Darwin. Lectures and reports on assigned topics.

3 hrs., first half-year. M W F, 10.

## 115. Eugenics.

Professor HOLMES.

A consideration of topics in human heredity and eugenics. Lectures, assigned reading and reports.

2 hrs., second half-year. Tu Th, 11. Prerequisite: course 114 or its equivalent.

## 117A-117B. Special Undergraduate Study.

The STAFF.

All work supplementary to courses announced above. Credit value to be fixed in each case.

## 118A-118B. Advanced Undergraduate Work in Special Topics.

The STAFF.

Hours to be arranged.

## 119. Special Work.

The STAFF.

Work on assigned topics carried on in Berkeley when the University is not in session or in the field or at the seashore under the direction of a member of the staff. Credit, 2-6 units.



FREE ELECTIVE COURSE

20. Some Ethical and Educational Problems Viewed Biologically.

Professor BITTER.

The course consists in an effort to apply the biological conception of "organismal integrity" or the "organism as a whole," to some of the central questions with which men under modern civilization are struggling.

2 hrs., second half-year, after March 1; 1 unit. Tu Th, 4. Registration may be made with Professor KOROID, 208 East Hall. Open to the public.

GRADUATE COURSES

221A-221B. Seminar. Development of Biological Thought in the Nineteenth Century.

Professor KOROID.

2 hrs., throughout the year; 1 unit each half-year. W, 4-6.

222A-222B. Journal Club.

The STAFF.

The instructors and advanced students hold weekly meetings, at which reports are made on the research work of members of the zoological staff, and on important current papers, followed by informal discussions. Students who wish to become active members should consult Professor DANIEL.

1 hr., throughout the year; no credit. F, 4.

223. Teachers' Course.

Professor HOLMES.

Aims, methods, and subject matter of zoological instruction in the schools.

1 hr., first half-year. M, 11.

240. Seminar in Protozoology.

Professor KOROID.

2 hrs., second half-year; 1 unit. Th, 4-6.

224A-224B. Research.

The STAFF.

Original study on special topics, in the field, laboratory, and museum.

The work may be carried on in the laboratories at Berkeley or at the San Diego station at any season of the year.

Hours to be arranged.

## INDEX

- Accounting, 87, 91.  
 Advertising, 89.  
 Agricultural Chemistry, 9.  
 Agricultural Education, 10.  
 Agronomy, 12.  
 Anatomy, 41.  
 Animal Husbandry, 14.  
 Anthropology, 44.  
 Apiculture, 19.  
 Arabic, 250.  
 Archaeology, 46, 188, 168.  
 Architecture, 47.  
 Argumentation, 238.  
 Art, 79, 81.  
 Astronomy, 51.  
 Bacteriology, 38, 39, 207.  
 Biochemistry, 57.  
 Biology (see under Zoology, Physiology and Botany).  
 Bohemian, 251.  
 Botany, 59.  
 Celtic, 64.  
 Chemistry, 65.  
 Chinese, 201.  
 Citriculture, 15.  
 Civil Engineering, 72.  
 Classification and numbering of courses, 3.  
 Credit valuation of courses, 3.  
 Dairy Industry, 16.  
 Debating, 238.  
 Dietetics, 146.  
 Drawing, 79.  
 Economics, 85.  
 Education, 95.  
 Electrical Engineering, 180.  
 Engineering Drawing, 79.  
 English, 101.  
 Enology, 39.  
 Entomology, 18.  
 Ethnography, 45.  
 Experimental Irrigation, 26.  
 Farm Management, 12.  
 Farm Mechanics, 22.  
 Fertilizers, 36.  
 Finance, 89.  
 Floriculture, 27.  
 Foods, 29, 146.  
 Forestry, 22.  
 French, 241.  
 Gas Engineering, 183.  
 General Science, 11.  
 Genetics, 26.  
 Geography, 112.  
 Geology, 116.  
 German, 122.  
 Germanic Philology, 128.  
 Gothic, 128.  
 Graphic Art, 81.  
 Greek, 129.  
 Hebrew, 250.  
 History, 134.  
 Home Economics, 142.  
 Household Art, 142.  
 Household Science, 145.  
 Hygiene, 148.  
 Insecticides, 20.  
 Insurance, 9.  
 Irish, 64.  
 Irrigation, 26, 152.  
 Italian, 245.  
 Japanese, 201.  
 Jurisprudence, 155.  
 Landscape Gardening, 27.  
 Latin, 162.  
 Law, 155.  
 Library, 4.  
 Linguistics, 168.  
 Major courses, 3.  
 Mathematics, 169.  
 Mechanical and Electrical Engineering, 175.  
 Medical School, 184.  
 Metallurgy, 194.  
 Military Science, 185.  
 Mineralogy, 116, 120.  
 Mining and Metallurgy, 190.  
 Music, 197.  
 Norse, 128.  
 Numbering of courses, 3.  
 Nutrition, 29.  
 Olericulture, 31.  
 Oriental Languages, 201.  
 Palaeontology, 205.  
 Parasitology, 21.  
 Pathology, 207.  
 Petroleum Engineering, 193.  
 Pharmacology, 57.  
 Philosophy, 210.  
 Physical Education, 216, 219.  
 Physics, 223.  
 Physiology, 230.  
 Plant Pathology, 32.  
 Polish, 251.  
 Political Science, 232.  
 Pomology, 33.  
 Poultry Husbandry, 35.  
 Psychology, 211.  
 Public Health, 286.  
 Public Speaking, 237.  
 Romanic Languages, 240.  
 Rural Institutions, 35.  
 Russian, 251.  
 Sanskrit, 248.  
 Semitic Languages, 250.  
 Serbo-Croatian, 251.  
 Slavic Languages, 251.  
 Sociology, 92.  
 Soil Technology, 37.  
 Soils, 36.  
 Spanish, 243.  
 Statistics and Insurance, 90.  
 Stenography and Typewriting, 86.  
 Surveying, 72.  
 Textiles, 144.  
 University Library, 4.  
 Veterinary Science, 38.  
 Viticulture, 39.  
 Welsh, 64.  
 Zoology, 254.  
 Zymology, 39.

**REGISTER—PART III**

**LICK ASTRONOMICAL DEPARTMENT**

**NOVEMBER, 1917**



# LICK ASTRONOMICAL DEPARTMENT

(LICK OBSERVATORY)

---

## OFFICERS OF THE OBSERVATORY

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., President of the University.  
WILLIAM W. CAMPBELL, Sc.D., LL.D., Director and Astronomer.  
RICHARD H. TUCKER, C.E., Astronomer.  
ROBERT G. AITKEN, M.A., Sc.D., Astronomer.  
WILLIAM H. WRIGHT, B.S., Astronomer.  
HEBER D. CURTIS, Ph.D., Astronomer.  
JOSEPH H. MOORE, Ph.D., Assistant Astronomer.  
RALPH E. WILSON, Ph.D., Acting Astronomer in charge of the D. O. Mills Expedition (at Santiago, Chile).  
ADELAIDE M. HOBE, B.S., Mills Assistant.  
GEORGE F. PADDOCK, Ph.D., Assistant.  
CHARLES M. HUFFER, M.A., Mills Assistant (at Santiago, Chile).  
FRANCIS C. P. HENROTEAU, D. ès Sc., Martin Kellogg Fellow.  
HOLGER THIELE, M.S., Fellow in the Lick Observatory.  
\*JESSICA M. YOUNG, M.S., Fellow in the Lick Observatory.  
ETHEL L. HASKETT, Secretary.

## HISTORY OF THE LICK OBSERVATORY

The Observatory was founded by James Lick, by a deed of trust dated September 21, 1875. This deed devotes the sum of \$700,000 to "the purpose of purchasing land, and constructing and putting upon such land . . . a powerful telescope, superior to and more powerful than any telescope yet made; . . . and, also, a suitable observatory connected therewith." The deed further provides that "if, after the construction of said telescope and observatory, there shall remain of said \$700,000 . . . any surplus," the surplus shall be invested and that "the income thereof shall be devoted to the maintenance of said telescope and the observatory connected therewith, *and shall be made useful in promoting science*; and the said telescope and observatory are to be known as the Lick Astronomical Department of the University of California." The gift of Mr. Lick was accepted by the Regents December 7, 1875.

---

\* To December 31, 1917.

## LOCATION

Mr. Lick had already, in August, 1875, selected Mount Hamilton, in Santa Clara County, as a site for the Observatory. Land for the site (1345.80 acres) was granted by Act of Congress in 1876. One hundred and ninety-one and forty-nine hundredths acres were granted to the University for the use of the Observatory in 1878. A tract of forty acres was added by gift of R. F. Morrow, Esq., in 1886. Three hundred and twenty acres were granted by the Legislature in 1888. A second congressional grant, comprising 599.94 acres, was added in 1892. The Regents of the University purchased forty acres additional in 1901, 240 acres in 1904, and 125.42 acres in 1908. The total area is 2902.65 acres.

## BUILDINGS AND INSTRUMENTS

The Observatory consists of a *Main Building*, containing computing rooms, library (of 8000 books and 5000 pamphlets), and the domes of the 36-inch Equatorial and the 12-inch Equatorial and of *Detached Buildings*, to shelter the Crossley Reflector, the Meridian Circle, the Transit, the portable Equatorial, the Crocker and the Floyd Photographic Telescopes. A fire-proof building was completed in 1909. It contains vaults for the storage of astronomical negatives, observations and other records of value, and instruments temporarily not in use; together with photographic dark-rooms and photographic and spectrographic laboratories. On the grounds are dwelling-houses for the astronomers, students and employees, and shops for the workmen. The Observatory is well provided with instruments, some of which are enumerated below:

*36-inch Equatorial*; objective by Alvan Clark & Sons, mounting by Warner & Swasey. This instrument has also a photographic corrector of 33-inch aperture, figured by Mr. Alvan G. Clark.

*3-foot Reflecting Telescope*; presented to the Lick Observatory in 1895 by Edward Crossley, Esq., of Halifax, England. The large mirror of this instrument is by Sir Howard Grubb. An entirely new mounting has been constructed. The building was erected from funds subscribed by citizens of California.

*12-inch Equatorial*; by Alvan Clark & Sons.

*6½-inch Meridian Circle*; objective by Alvan Clark & Sons; mounting by Repsold.

*6½-inch Equatorial*; mounting by Warner & Swasey.

*6½-inch Bruce Comet Seeker*; objective by Brashear; mounting made at the Lick Observatory.

*6-inch Crocker Photographic Telescope*; objective by Willard; refigured by J. A. Brashear, who provided the mounting also.

*5-inch Floyd Telescope*; presented by Mrs. Peter Gopcevic (née Miss H. A. L. Floyd); interchangeable photographic and visual objective by Alvan Clark & Sons.

A *Spectroscope*, especially adapted for photography; given by Hon. D. O. Mills for use with the 36-inch Refractor.

A *Spectroscope*, especially adapted for photography with the Crossley Reflector, and two *Photometers* for use with the 36-inch and 12-inch telescopes, provided from the proceeds of a gift from the late Miss C. W. Bruce of New York City.

A *36½-inch Cassegrain Reflecting Telescope*, with modern dome and a 3-prism spectrograph, the gift of Hon. D. O. Mills, for use on an astronomical expedition to the southern hemisphere. This expedition is now at work on the summit of San Cristobal, in the northeast suburbs of Santiago, Chile.

A *Wiechert Horizontal Seismograph* and a *Wiechert Vertical Seismograph*, with break circuit clock and subsidiary apparatus, the gift of Hon. W. R. Hearst.

There are, besides, several smaller telescopes and many minor pieces of apparatus.

#### UNIVERSITY FELLOWSHIPS

The Regents have established in the Lick Astronomical Department three salaried fellowships. These usually permit the holders to pursue studies and undertake investigations in fulfillment of requirements for the degree of Doctor of Philosophy. It is essential that each successful applicant shall be a graduate of a college or university of high standing, and shall have decided to make astronomy or one of the related sciences the basis of a professional career. Applications should be made in writing to the Director of the Lick Observatory.

#### MARTIN KELLOGG FELLOWSHIP

A fellowship in the Lick Astronomical Department has been endowed by Mrs. Louise W. B. Kellogg in memory of her husband, Martin Kellogg, deceased, whose services to the University of California as Professor and President covered nearly half a century.

The purpose of the Martin Kellogg Fellowship is to provide opportunities for advanced instruction and for research to students who have already received the degree of Doctor of Philosophy, or to members of the staffs of observatories. Preference will be given to qualified applicants who may desire to pursue formal studies or researches in the Lick Astronomical Department, or in the Lick and Berkeley Astronomical departments, and to members of the Lick Astronomical Department who

may desire to undertake work in another university or observatory; but it is possible that opportunities will arise to award this fellowship, in cases of special merit, without restrictions as to the places of residence of applicants and holders. The stipend per annum is variable in amount, and would aim to cover the necessary expenses of travel and residence. Applications, including outlines of proposed plans and estimates of necessary expenses, should be made in writing to the Director of the Lick Observatory.

#### SPECIAL ASSISTANTS

On the recommendation of the Director and with the approval of the President persons with experience in astronomical investigation may occasionally be received at the Lick Observatory, to act as assistants in definite researches then in progress. These assistants, serving without pay, will be assigned to such studies as will be advantageous both to the Observatory and to themselves. Opportunity for making independent researches will be available only in exceptional cases.

#### SPECIAL INVESTIGATORS

It occasionally occurs that eminent investigators from other institutions desire to utilize the exceptional advantages of the Lick Observatory for the solution of special problems. Opportunity for such researches will be provided in case no interference with the regular programme of work would arise therefrom.

#### REGULATIONS REGARDING STUDENTS AT THE LICK OBSERVATORY

At the Lick Observatory graduate instruction in astronomy is offered by the Director and the Astronomers, in connection with the investigations in which they are engaged or which may be specially assigned to the student by the Director. Graduate instruction at the Lick Observatory is restricted, as a general rule, to students qualified to be on the footing of astronomical assistants. All undergraduate instruction in astronomy and such graduate instruction as is not carried on at the Lick Observatory is conducted at Berkeley.

Applicants for admission to the Lick Observatory must first qualify as graduate students of the University. Applicants are advised to file their applications with the Recorder of the Faculties, at Berkeley, before May 1.

As many graduate students as can be furnished accommodations at Mount Hamilton, without expense to the University, may pursue astronomical



studies at the Lick Observatory; and in return for the accommodations they will be required to execute such computations, etc., as are assigned to them.

It is usually advantageous for students to choose their time of residence at the Lick Observatory in the period from May to December.

### HIGHER DEGREES

Graduate students enrolled in the Lick Astronomical Department of the University may become candidates for the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. The general conditions on which these degrees are granted are printed in the Announcement of the Graduate Division.

Candidates holding fellowships in the Lick Astronomical Department are usually required to spend one term each year in graduate work at Berkeley, the place of residence being assigned by the Director of the Lick Observatory, from a consideration of the needs of the Observatory work and of the courses of instruction available at Berkeley, after consultation with the heads of the related departments of the University. In all other cases the term of residence at Mount Hamilton and at Berkeley is determined by the proper committee for each individual candidate.

### QUARTERS FOR THE STUDENTS

Comfortable quarters (partly furnished) are allotted to students at the Observatory. Students make their own arrangements for board and service. The cost per month for each student need not exceed \$30. Each student should bring with him the linen for his room, blankets, etc., and should also provide himself with the textbooks which are constantly needed—Young's General Astronomy, Campbell's Practical Astronomy, Bruennow's *Lehrbuch der Sphaerischen Astronomie*, or Chauvenet's Spherical and Practical Astronomy, Watson's Theoretical Astronomy, Oppolzer's *Bahnbestimmung*, Klinkerfues'-Buchholz's *Theoretische Astronomie*, or Bauschinger's *Bahnbestimmung*; standard six-, five-, and four-place tables; Crelle's *Rechentafeln*, etc. All injuries to apparatus must be made good at the student's expense, and students are expected to provide the larger part of the chemicals used in their practice of photography.

Intending students will do well to communicate with the Director of the Observatory before filing their formal applications for admission with the Recorder of the Faculties. The postoffice address is Mount Hamilton, Santa Clara County, California.

## ADMISSION OF VISITORS TO THE OBSERVATORY

The Observatory buildings are open to visitors during office hours every day of the year. For the present, visitors who arrive at the Observatory on *Saturday nights before 9 o'clock* will be admitted to look through the great telescope. Whenever the work of the Observatory will admit it, the 12-inch telescope also will be placed at the disposition of visitors on Saturday nights.

Students of the University of California who visit Mount Hamilton are requested to make themselves known, in order that the work of the Observatory may be fully explained to them.

REGISTER—PART IV

SCRIPPS INSTITUTION FOR BIOLOGICAL  
RESEARCH

NOVEMBER, 1917



# THE SCRIPPS INSTITUTION FOR BIOLOGICAL RESEARCH

---

## LOCAL BOARD OF ADMINISTRATION

- BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., President of the  
University, Berkeley.  
WM. E. RITTER, Ph.D., Scientific Director, La Jolla.  
W. C. CRANDALL, A.B., Business Agent and Secretary of the Local Board,  
La Jolla.  
ELLEN B. SCRIPPS, Litt.D., La Jolla.  
E. W. SCRIPPS, Miramar.  
FRED BAKER, M.D., San Diego.  
E. L. MICHAEL, M.S., La Jolla.  
GEORGE F. McEWEN, Ph.D., La Jolla.  
F. B. SUMNER, Ph.D., La Jolla.  
C. O. ESTERLY, Ph.D., La Jolla.  
J. C. HARPER, La Jolla.  
P. S. BARNHART, M.S., La Jolla.

## RESIDENT RESEARCH STAFF

- WM. E. RITTER, Ph.D., Zoologist.  
F. B. SUMNER, Ph.D., Biologist.  
E. L. MICHAEL, M.S., Zoologist and Administrative Assistant.  
GEORGE F. McEWEN, Ph.D., Hydrographer and Curator of the Oceanographic  
Museum.  
W. C. CRANDALL, A.B., Business Agent.  
C. O. ESTERLY, Ph.D., Zoologist.  
OLIVE SWEZY, Ph.D., Zoologist.  
P. S. BARNHART, M.S., Collector and Curator.

## NON-RESIDENT RESEARCH STAFF

- C. A. KOFOID, Ph.D., Sc.D., Zoologist and Assistant Director.  
J. FRANK DANIEL, Ph.D., Special Investigator on Elasmobranch Fishes,  
Associate Professor of Zoology, University of California.  
S. S. BERRY, Ph.D., Zoologist.

## SECONDARY OFFICERS

- H. H. COLLINS, M.S., Research Assistant.  
CHRISTINE E. ESSENBERG, M.S., Zoologist and Librarian.  
FRANK E. A. THONE, B.S., Secretary and Research Assistant to the Director.

## HISTORY, SUPPORT, AND MANAGEMENT

The institution grew out of the simple but calculated efforts in the department of zoology at the University to promote researches on the animal life of the Pacific Ocean. Since 1901 these efforts have been continuous, more or less definitely organized, and specifically supported financially. During the first years the financial support came in small sums from numerous persons interested in the work, alumni of the University, and to a slight extent the University itself. The interest of Miss E. B. Scripps and Mr. E. W. Scripps in the undertaking began in 1903, when the itinerant equipment was moved from San Pedro to San Diego. At present all the funds for physical upbuilding and a large portion of those for maintenance come from this source, though since 1912 the State of California has contributed liberally to the support of the scientific work.

For several years the enterprise was carried on as the Marine Biological Station of San Diego, a corporation which had no official connection with the University of California, though such a relation was looked forward to and provided for in the articles of incorporation. In accordance with this provision, the property and management were transferred to the Regents of the University in 1912, the name of the foundation being then changed to that by which it is now known. The institution is, consequently, an integral part of the University of California.

But, while the institution is entirely subject to the authority of the University, the Regents have entrusted the institution's affairs to a local board of control, and this delegation of management is as complete as it can be under the law and in keeping with the general policy and best interests of the University as a whole.

That the Local Board may be in the largest measure possible determinative and representative of the policies of the institution, all permanent resident members of the research staff are made eligible to membership in the board.

## LOCATION

The institution occupies a 177-acre "pueblo lot" situated on the ocean front about sixteen miles north of the center of San Diego City and two miles north of the suburb of La Jolla. Both suburb and institution are within the corporate limits of the city.

Although this site on the open ocean, considerably isolated from human habitation and transportation facilities, has introduced rather difficult and expensive elements into the problems of development, the great and unique advantages of the location for researches on the life of the open sea and on the sea itself, which researches have a central place in the

institution's scientific programme, and the further advantages of ample grounds on which to build, are fully justifying and it is confidently believed will continue to justify the hazards that have been taken.

## HOUSING AND EQUIPMENT

*A fire-proof research laboratory* capable of accommodating about twenty-five investigators. All the laboratory rooms, seven in number, on the first floor, are provided with salt water aquaria, thus furnishing large facilities for indoor experimentation on marine organisms. The circulatory system is of lead and hard rubber. The aquaria are of concrete and plate glass.

*A fire-proof library-museum building* recently constructed. The first floor is devoted to the natural history and oceanographic exhibits and the administration offices. The library and the reading room, used also as an assembly room, are on the second floor. The stack room now in use has a capacity of about 25,000 volumes. The old and new buildings are forty feet apart, but are connected through the second floors by a closed-in passageway.

*A wharf*, the piles and beams of concrete, the decking of wood, 1000 feet long and 20 feet wide. At the seaward end are placed the pump for the salt-water system, a naturalist's house, and other aids to scientific work.

*A concrete storage and settling tank*, capacity 40,000 gallons, at the base of the sea cliff under the wharf. The sea water for the aquaria is pumped directly into this and from this into an *elevated delivery tank*, also of concrete, capacity 20,000 gallons. The tank house under this contains two rooms, used mostly for the storage of zoological material.

*A public aquarium building* of wood, containing nineteen concrete tanks with plate-glass fronts.

*A mousehouse* or "*murarium*" of wood, but entirely isolated and specially constructed, with living quarters for about 1000 mice. This is for the cages of mice the individual pedigrees of which are kept for experimental purposes.

*A mouse yard*, a small area of native earth enclosed by concrete walls and wire screening. The purpose of this is to give captive mice of local and foreign species as nearly natural conditions as possible.

The two last mentioned structures are used by Dr. Sumner in his extensive experiments on environmental influence and heredity.

*A commons*, with kitchen and dining-room capacity for about forty persons, with a half-basement containing a number of bathrooms and a laundry.

*Twenty-two cottages*, homes for members of the biological colony.

*Garages, service houses, etc.*

## THE LIBRARY

The library, which has lately been moved into its permanent quarters on the second floor of the new building, contains over 5000 volumes and some 8000 pamphlets and unbound journals. The entire collection is well catalogued and available for use.

## BOATS AND WORK AT SEA

The *Alexander Agassiz*, the institution's largest boat, having been found unsuitable for the marine exploration work now being carried on, was sold during the last year. Although the funds realized from the sale are to be used in securing another boat, while the present unfavorable condition of the boat building industry lasts, boats are being hired from time to time for the heavier work. A small high-power boat, the *Ellen Browning*, with speed capacity of thirty miles an hour, has been given to the institution by E. W. Scripps. During stormy weather this craft is kept on the wharf, where she is hoisted by davits. By this arrangement collecting trips for several purposes can be made to considerable distances in a few hours. Much winter work can be done now that was impossible before the wharf and the *Ellen Browning* were added to the equipment.

## VISITING INVESTIGATORS

The increased facilities, both for scientific work and for living, which the recent developments have furnished, are making it possible for the institution to hold out more encouragement to visiting naturalists than it has hitherto been in position to do. For certain types of biological problems, the natural conditions, equipment, and policies of the institution, are exceptional. Every general zoologist knows something of the defectiveness of our knowledge of many, indeed most, questions pertaining to the lives of the animals of the "high seas." Again, the institution's undertakings in oceanography, though subordinate to its biological investigations, are yet opening up alluring vistas of inquiry, some of which, particularly on the physical side of the science, may be pursued to excellent advantage at the institution.

From the standpoint of the general progress of science in America, it seems desirable that the opportunities being here developed for researches in these backward departments of science should be utilized by a larger number of investigators than it is possible for the institution with its limited means to maintain on its paid staff.



## GRADUATE STUDENTS

The policy so long maintained in a somewhat tentative way of accepting a few research students who are fitted to participate advantageously in investigations being carried on by members of the regular staff can now, because of the enlarged facilities of the institution, be made more positive. Work on this basis is possible in several aspects of oceanography, the pelagic life of the sea, systematic zoology, growth of organisms, environmental influence and heredity, the technique of biological observation and thought and possibly laboratory experimentation on the behavior of pelagic animals. No fees are charged students working on this basis, the assumption being that the work done by the student will materially aid in carrying on the institution's research programme.

Experience is proving that very profitable and pleasant arrangements of this sort can be entered into, but usually a period of less than a year devoted to such study will hardly be profitable either to student or institution.

Investigators and graduate students who contemplate work at the institution should correspond with the Director before deciding to come to La Jolla. Plans for study should be set forth quite fully. It is the wish of the management to have the facilities of the institution used to the very best advantage; and undoubtedly this is possible only when due consideration is given to the question of how well the visitors' needs fall in with the natural conditions of the region and the general policies and equipment of the institution.



**REGISTER—PART V**

**SUMMER SESSION**

**JUNE 25 TO AUGUST 4, 1917**

**OUTLINE OF ANNOUNCEMENT PUBLISHED**

**APRIL, 1917**



**University of California**

**SUMMER SESSION**

**June 25 to August 4, 1917**



# SUMMER SESSION, 1917

---

## **Session of 1917**

The eighteenth annual summer session of the University of California will begin Monday, June 25, 1917, and will continue until Saturday, August 4, the session covering six weeks.

## **Earlier Sessions**

The University of California held its first regular Summer Session in 1900, though summer courses in several departments had been given during the years 1891-99. The total enrollment in 1916, not including the Summer School of Surveying, was 3975. Of this number 1190 were men and 2785 women.

## **Purpose of the Session**

The courses in the summer session are designed to meet the needs of the following persons:

1. Teachers who wish to strengthen their grasp of their own subject by a general survey, to carry on advanced studies in it, or to gain a broader outlook by the pursuit of other branches of study. It is a significant fact that in previous sessions more than half of the students have been teachers and school officers. For this reason the University has planned the majority of the courses primarily to meet the needs of teachers.

2. School superintendents, supervisors and other officers. Supervisors of music, manual training, domestic science, agricultural education, and drawing will find work especially suited to their needs.

3. Teachers of physical education, directors of gymnasiums, supervisors of playgrounds, kindergartners, boy scout masters, camp fire guardians, and athletic coaches.

The University campus offers unusual opportunities for the demonstration of play and social center activities. A model playground, a play school, and a coaching school will be maintained.

4. Graduate students to whom the advantages of smaller classes, the freer use of the facilities of libraries, laboratories, and museums, and the more direct intimate and personal contact with the professors in charge are peculiarly possible during the summer session.

5. Undergraduate students who wish to use the vacation to take up studies for which they are unable to find room in their regular programmes, to shorten their courses, or to make up deficiencies.

6. Properly recommended high school graduates who are about to enter upon regular university courses in the ensuing fall session and who desire to complete matriculation requirements or to broaden their preparation for university work. To meet their needs courses are offered in mathematics, German, French, Spanish, physics, chemistry, zoology, home economics, music, mechanical and freehand drawing, and stenography and typewriting.

7. Adults qualified to pursue with profit any course given, whether or not they are engaged in teaching or study.

### **Faculty**

The faculty of the Summer Session will include not only members of the regular faculties of the University but also a number of men of letters and science from Eastern universities.

### **Applications for Admission**

All persons who desire to attend any of the courses are urgently requested to notify the Recorder of the Faculties on or before Wednesday, June 6, using the blank form of application at the end of this bulletin. Compliance with this request will facilitate the making of adequate arrangements by the University, and will make possible prompt communication with prospective students in case of change in the programme.

### **Admission Requirements.**

Attendants upon the exercises of the summer session are divided into two broad classes:

A. *Auditors*.—Any adult of good moral character is permitted to attend all the regular exercises of the session, as an auditor, upon the filing of an application and the payment of the regular tuition fee of fifteen dollars. This may be done by mail. An auditor does not participate in recitations, does not take examinations, and does not receive formal credit on the books of the University either for attendance or for any study or investigation which he may undertake.

B. *Students*.—While there are no formal admission requirements and no entrance examinations, the officers in charge of admissions will keep in mind the fact that the instruction offered is such as is suitable for students of university grade, and these officers will exercise their discretion in admitting to student privileges only those applicants who appear to possess the requisite maturity, training, and intelligence. Furthermore, the instructor in charge of a given course may himself require of those who present themselves as students in this course any preliminary test, formal or informal, which he may deem essential to the work proposed.



The University will not, as a rule, admit to the summer session pupils from the high schools who have not yet completed the four-year high school course. Where an exception is made to this general rule, the pupil will be required to devote himself to courses given primarily or exclusively for matriculation credit, such as the "A" or "B" courses in chemistry, physics, mathematics, drawing, and the languages. And in every such exceptional case the applicant will be required to procure from the principal of his school, and to present at the University, a full statement of the applicant's high school record, and of his plans for further study, either toward university matriculation or toward some other definite end. Only by special arrangement made in advance may summer session courses other than the "lettered courses" be applied toward matriculation.

### **Registration Dates**

The office of the Recorder of the Faculties will be open for registration of students Saturday, June 23, and Monday, June 25.

With the approval of the Dean, teachers whose regular employment makes it impossible for them to register at the opening of the session are allowed to register as late as Monday, July 2. Such students may be permitted to enter courses and to receive credit for them only when, in the opinion of the instructor, they have satisfactorily covered the ground of the first week.

### **Fees**

The tuition fee will be fifteen dollars (\$15) regardless of the number of courses taken. Laboratory fees will be charged in courses in anatomy, botany, chemistry, civil engineering, home economics, manual arts, mechanical engineering, music, physics, public health, and zoology. The fees in each case are stated in the description of the course.

Persons desiring to attend courses or occasional lectures without examination or formal credit may secure for this purpose an auditor's ticket upon payment of the regular fee (\$15). Such tickets are obtainable by mail, upon forwarding the usual form of application. Address the Recorder of the Faculties of the University of California, Berkeley, California.

All fees must be paid in advance, at the opening of the Summer Session, at the office of the Comptroller, in California Hall. No deduction will be made from fees in cases of late registration. After the first week no rebate will be allowed for early withdrawal.

**Classification and Numbering of Courses**CLASSIFICATION.**I. Undergraduate Courses.**

*Lower Division Courses:* (a) A prescribed course is one that is required specifically for graduation in any college. (b) A free-elective course in the lower division is any course that is not prescribed. A free-elective course may be taken as a prerequisite for a more advanced elective in the same field. *Upper Division Courses:* (a) A major course is an upper division course of advanced work in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. All major courses are definitely announced as such, and are given the numbers 100-199, as is explained below. (b) A free-elective course in the upper division is a course for which the junior certificate or junior standing is normally prerequisite, but which does not demand necessarily any preliminary knowledge of the subject. Lower division courses may be taken as free-electives in the upper division, but upper division courses, whether free-elective or otherwise, are not open to students of the lower division without the special permission of the department concerned.

**II. Graduate Courses.**NUMBERING

Undergraduate courses are designated either by letters, without numbers, or by numbers. The "lettered courses," e.g., Mathematics A, German A, are equivalents, or nearly so, of subjects in the University preparatory list; they represent subjects of study which may be pursued either in the high school or in the University. All other undergraduate courses, excepting only the major courses, are numbered from 1 to 99 inclusive.

All summer session courses, graduate or undergraduate, which are identical, or nearly so, with courses given during the fall or spring sessions, are distinguished by the letter "S" prefixed to the regular number of the course.

*Undergraduate major courses* are numbered from 100 to 199 inclusive.

*Graduate courses* are numbered from 200 to 299 inclusive.

**Credit**

Credit toward a university degree will be given only to attendants who are qualified to do systematic university work, and is in every case subject to the requirement that the student shall at some time qualify in the University as a regular matriculant, either by passing the entrance examinations or otherwise. In the absence of formal entrance require-

ments, the instructor in charge of a given course in the Summer Session is the judge of the qualifications of candidates for credit.

In general, credit will be given at the rate of one unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two units. Credit may be given, in due proportion, for a smaller number of exercises, when these are of more than the usual length (which for lectures and recitations is about fifty-three minutes). A recitation or lecture presupposes about two hours of study outside of the classroom; laboratory or other exercises which do not require outside preparation are estimated at a lower rate than recitations or lectures.

If in a given course a final examination is required by the instructor, there can be no individual exemption from this examination. A student who fails to pass the examination does not receive credit for the course. It should furthermore be noticed that special examinations and re-examinations in summer courses are not provided.

The amount of credit normally obtainable during the session by a student who devotes his whole time to courses strictly of university grade is from four to six units, according to the character of the work selected. A bachelor's degree represents 124 or more units of credit, distributed according to the special requirements of the college or department in which the student is enrolled. For the master's degree there are required about 18 units of properly selected work, in addition to a thesis. The work for Ph.D. and other doctor's degrees is not estimated in units of credit, and must be specially planned for every candidate. There are normally required four years of university residence for a bachelor's degree, one year for a master's degree, and at least two years for a doctor's degree; and while advanced credit is given for work done at other universities, the candidate's final year of residence for any degree must be spent in the University of California.

Two summer sessions are accepted as the equivalent of one half-year of residence for any degree; but the amount of credit (the number of units) that may be completed during two summer sessions would for the average student not exceed three-fourths of the amount that could be completed during a single fall or spring session.

In every case students desiring credit for major or graduate courses should make definite arrangements therefor with the instructor at the beginning of the session. Students electing work in the summer session as a part of a programme for a higher degree should consult the Announcement of the Graduate Division for 1916-17 for information regarding facilities and departmental requirements. Graduate students should consult, also, the Dean of the Graduate Division, at his office in 203 California Hall, second floor.

The University issues formal Recommendations for Teachers' Certificates only to those who hold a bachelor's degree. Certificates of record for Summer Session work, whether of matriculation or of university grade, will be issued by the Recorder of the Faculties, upon application of any student in the session; and personal recommendations from instructors may be obtained by school officers and other inquirers through the office of the Appointment Secretary.

There will be no general period of final examinations. The matter of examinations for credit will be left in the hands of the instructors, who may use the regular recitation hours for that purpose, or may hold examinations at other times, to be arranged with their classes. No examination is to be held except at a time which will make it possible for all the members of the class to attend without conflict with other University appointments; special examinations to suit the convenience of individuals are not permitted.

Students who apply for credit in any course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the close of the session; and students will be required to hand in all their work by that time, in order that the instructor may make his report in due season. Students are not authorized to continue any part of the work beyond the close of the session. No provision is made for re-examinations or supplementary work for the removal of deficiencies.

Teachers, however, who are compelled to return to their work one week before the close of the session may be given credit for courses in which they are registered as students of the Summer Session, provided that, in the opinion of the instructor, the nature of the work (including the final examination, if there be one), is such that it can be carried on, during the final week, *in absentia*.

#### **Prescribed Science for the Junior Certificate**

The following courses, offered in the Summer Session of 1917, may be taken in satisfaction of the prescription in natural science for the Junior Certificate. Laboratory courses are indicated by an asterisk (\*) following the number of the course: Astronomy S1, S2A\*, S11, Botany S3\*, Chemistry A\*, S5\*, S8A, History of Science 1, Physics A\*, S1AB\*, S3AB\*, Public Health S1\*, Zoology A1\*.

#### **Accommodations and Expenses**

There are no dormitories on the campus, but there are many boarding houses and private homes in Berkeley where in previous years students have obtained board and room at prices ranging from \$30 to \$40 per month. There are also several restaurants in Berkeley where meals may be had *à la carte*. A list of places offering board and room or either

alone will again be ready for distribution at the opening of the session at the bureau of information in California Hall. Every possible assistance will be given to strangers in their search for suitable boarding places.

The following table will enable the student to form an estimate of the expenses, exclusive of railway fare, to be met in attending the six weeks of Summer Session:

University tuition fee.....	\$15- 15
Laboratory fees (according to courses taken).....	00- 10
Board and room, six weeks.....	45- 65
Text books and stationery .....	5- 15
Laundry .....	5- 12
<hr/>	
Total .....	\$70-117

The Associated Students' Store, in North Hall, carries all textbooks for Summer Session courses, as well as stationery and other supplies.

### **Greek Theatre**

Free admission to all performances in the Greek Theatre will be included among the privileges extended to registered students in the Summer Session. Plans are now being made for the usual concerts and dramatic productions which for several years have been notable events of the season. Among the entertainments in the past have been choral and orchestral concerts under the direction of Paul Steindorff, "The Toad," produced by the Forest Theatre Players of Carmel, and "Shakuntala," produced by the Mountain Players' Club, Margaret Anglin's first presentation of "Antigone," the Dance-Pageant of Ruth St. Denis and her company, and the notable performances of "Nero" and "King Lear" by the Players' Club of San Francisco.

## FACULTY OF THE SUMMER SESSION

---

**BENJAMIN IDE WHEELER, Ph.D., LL.D., Litt.D.,** President of the University.

**WALTER MORRIS HART, Ph.D.,** Associate Professor of English Philology;  
Dean of the Summer Session.

**JAMES SUTTON, Ph.B.,** Recorder of the Faculties.

**MARY BLOSSOM DAVIDSON, B.L.,** Assistant Dean of Women, Social Director  
of the Summer Session.

**GUY MONTGOMERY, A.B.,** Secretary to the Dean.

---

**GEORGE PLIMPTON ADAMS, Ph.D.,** Associate Professor of Philosophy.

**EDWARD JOSEPH ALBRECHT, A.B.,** Instructor in Mathematics and Drawing,  
Lindsay High School.

**\*ARTHUR CARL ALVAREZ, B.S.,** Assistant Professor of Civil Engineering.

**FRANK ANDERSON, Instructor in Music,** Polytechnic High School, Los  
Angeles.

**WILLIAM LIND ARGO, Ph.D.,** Instructor in Chemistry.

**J. EVAN ARMSTRONG, A.B.,** Instructor in Stenography and Typewriting.

**STOCKTON AXSON, Litt.D., L.H.D.,** Professor of English Literature, Rice  
Institute.

**MARION BARBOUR, B.S.,** Kindergarten Department, State Normal School,  
Los Angeles.

**EARL WINGERT BARNHART, B.L.,** Head of Commercial Department, Berkeley  
High School.

**†PERCY SPENCER BARNHART, M.A.,** Collector and Curator in the Scripps  
Institution for Biological Research.

**ALBERT L. BARROWS, M.S.,** Instructor in Zoology.

**ANNIE LITTLE BARRY, State Parliamentarian of the California Federation  
of Women's Clubs.**

**LLOYD D. BARZEE, A.B.,** Instructor in Typewriting, Stockton High School.

**ELIZABETH H. BEMENT, Instructor in Household Art in the Summer Session.**

**LOUIS F. BEST, A.B., Supervisor of Manual Training, Pasadena.**

---

*\* In the Summer School of Surveying, Camp California, Swanton,  
California.*

*†At La Jolla.*

FREDERIC THOMAS BLANCHARD, M.A., Assistant Professor of English, Rice Institute.

MARY BLANCHARD, Teacher of Physical Education in the Manual Arts High School, Los Angeles.

GEORGE BLEWETT, Assistant in Swimming.

WILLIAM CHARLES BOECK, M.A., Assistant in Zoology.

JOHN SIEGFRIED BOLIN, M.A., Instructor in Education.

HERBERT EUGENE BOLTON, Ph.D., Professor of American History; Curator of Bancroft Library.

CORA BOONE, Teacher of Art, Oakland School Department.

DOLORES ELIZABETH BRADLEY, B.S., Assistant in Bacteriology.

GERALD EYRE KIRKWOOD BRANOH, Ph.D., Instructor in Chemistry.

THEODORA R. BREWITT, Principal of the Training School, Los Angeles Public Library.

ROSS J. BROWER, B.S., Instructor in Drawing.

EDITH LOUISE BROWN, M.S., Laboratory Assistant in Household Science.

FRANCES K. BURE, A.B., Instructor in the Play School in the Summer Session.

LORAINE CADWELL, Director of the Department of Physical Education, Girls' Collegiate School, Los Angeles.

JOHN UBERTO CALKINS, Jr., J.D., Lecturer in Commercial Law.

BEN MARK CHEERRINGTON, A.B., General Secretary, Young Men's Christian Association, University of California.

RALPH CASEY, A.B., Assistant Professor of Journalism, University of Montana.

KATHERINE DUNLAP CATHER, Instructor in the Play School in the Summer Session.

WALTER CHRISTIE, Head Track Coach for the Associated Students of the University of California.

HENRY HUNT CLARK, Department of Decorative Design, Museum of Fine Arts, Boston.

GEORGE WASHINGTON CORNER, A.B., M.D., Assistant Professor of Anatomy.

WILLIAM W. CORT, Ph.D., Assistant Professor of Zoology.

EDITH MARGARET COULTER, A.B., B.L.S., Reference Librarian, University of California Library.

GEORGE ECKERT COX, Assistant in Mechanics and Foreman of Woodwork.

FREDERICK WARREN COZENS, A.B., Instructor in Physical Education.

†WESLEY CLARENCE CRANDALL, A.B., Business Agent of the Scripps Institution for Biological Research.

H. D. CROSS, National Field Scout Commissioner, San Francisco.

IRA BROWN CROSS, Ph.D., Assistant Professor of Economics on the Flood Foundation.

---

†At La Jolla.

HELEN F. CUMMINS, A.B., Teacher of Arts and Crafts, Alameda High School.

HENRI CHARLES EDOUARD DAVID, M.A., Assistant Professor of French Literature, University of Chicago.

EDWARD DAWSON, Ph.D., Professor of History and Political Science, Hunter College of the City of New York.

ABBIE LOUISE DAY, B.S., Instructor in Elementary Education, University of Cincinnati.

EMMA B. DEARBORN, Instructor in Typewriting, Columbia University.

EDWARD B. DE GROOT, Director of Physical Education, Athletics, Social and Lecture Centers, San Francisco Public Schools.

MONBOE EMANUEL DEUTSCH, Ph.D., Assistant Professor of Latin.

GEORGE EDWARD DICKIE, B.L., Instructor in Military Science and Tactics; Superintendent of Recreation and Director of School Playgrounds, Oakland.

JANE GAY DODGE, M.A., Instructor in English, Vassar College.

MILDRED DODGE, A.B., Instructor in the Play School in the Summer Session.

SYLVIA M. DOLEN, Assistant in Office Practice in the Summer Session.

EDGAR A. DOLL, M.A., Assistant Psychologist, The Training School, Vineland, N. J.

WILLIAM R. DORR, M.D., Superintendent of St. Luke's Hospital, San Francisco.

OLIVE B. WILSON DORRETT, Instructor in the Play School in the Summer Session.

COLIN VICTOR DYMENT, A.B., Professor of Journalism, University of Washington.

\*ADOLPHUS JAMES EDDY, B.S., Assistant Professor of Civil Engineering.

\*CATHERINE EDSON, Instructor in Dancing in the Summer Session.

\*STURLA EINARSSON, Ph.D., Instructor in Practical Astronomy.

EDWARD ELLIOTT, Ph.D., Professor of International Law and Politics.

CECILIA EVANS, Director of Nursing Division, Public Health Nursing Course, Western Reserve University.

JENNIE REBECCA FADDIS, B.S., Assistant Superintendent of Public Schools, Butte, Mont.

HELEN FANCHER, Instructor in Household Art in the Summer Session.

RUTH FINDLAY, Supervisor of Recreation, Oakland.

GRACE FISHER, A.B., Supervisor of Home Economics, Pasadena Public Schools.

MILES BULL FISHER, B.D., Instructor in Religious Education, Pacific School of Religion, Berkeley.

\*FRANCIS SEELEY FOOTE, Jr., E. M., Associate Professor of Railroad Engineering and Director of the Summer School of Surveying.

\*In the Summer School of Surveying, Camp California, Swanton, California.



JOHN NIVISON FORCE, M.D., M.S., Gr.P.H., Assistant Professor of Epidemiology.

EDWARD CURTIS FRANKLIN, Ph.D., Professor of Chemistry, Stanford University.

EVERETT FRASER, LL.B., Dean of the Law School and Professor of Law, George Washington University.

MARCUS FREED, Instructor in Boxing.

†THOMAS WALTON GALLOWAY, Ph.D., Litt.D., Professor of Zoology, Beloit College.

WILLARD GARDNER, Ph.D., Principal, Murdock Academy, Beaver, Utah.

JAMES GEORGE, Assistant in Mechanics and Foreman of Ironwork.

GEORGE ERNEST GIBSON, Ph.D., Instructor in Chemistry.

JOHN WASHINGTON GILMORE, M.S.A., Professor of Agronomy.

CHARLES A. GLOVER, Assistant in Office Practice in the Summer Session.

EMILIO GOGGIO, M.A., Instructor in Italian.

KATE GOMPERTZ, B.S., M.D., Assistant Physician for Women.

J. FENTON GRAHAM, B.S., Principal, Lemoore Union High School.

FRANKLIN THEODORE GREEN, Ph.G., Professor of Chemistry, Director of the Chemical Laboratories, and Dean of the California College of Pharmacy.

R. J. GREENE, A.B., Instructor in Physics, Tonopah High School, Nevada.

LESLIE GURLEY, Assistant in Manual Arts in the Summer Session.

MARIAN HAGUE, Chairman of the Technical Committee in the Scuola d'Industria Italiana, New York; Lecturer and Instructor in the Summer Session.

GUILLERMO FRANKLIN HALL, B.S., Adjunct Professor of Spanish, University of Texas.

ROSWELL GRAY HAM, B.L., Instructor in English.

RAYMOND O. HANSON, Scout Executive, San Francisco.

GAIL HARRISON, B.S., Lecturer on the Kindergarten and the Early Education of Childhood.

MAURICE EDWARD HARRISON, J.D., Lecturer in Law.

HUDSON BRIDGE HASTINGS, B.S., Professor of Applied Economics, Reed College.

\*EDWIN DANIEL HAYWARD, B.S., Instructor in Civil Engineering.

EARLE RAYMOND HEDRICK, Ph.D., Professor of Mathematics, University of Missouri.

EUGENE SCHOFIELD HEATH, M.A., Assistant in Botany.

EDWARD OSCAR HEINRICH, B.S., Examiner of Questioned Documents, Consulting Expert in Criminal Investigations, Tacoma, Washington.

---

† At Berkeley, June 25-August 4; at La Jolla, August 6-25.

\* In the Summer School of Surveying, Camp California, Swanton, California.

- KURT HELLER, Ph.D., Instructor in German.
- CLARK W. HETHERINGTON, A.B., Professor of Physical Education, University of Wisconsin; Director of the Play School in the Summer Session.
- DAISY ALFORD HETHERINGTON, Supervisor of the Play School in the Summer Session.
- JOEL HENRY HILDEBRAND, Ph.D., Assistant Professor of Chemistry.
- ERNEST BRYANT HOAG, M.A., M.D., Medical Psychologist to the Los Angeles Juvenile Court.
- FRANK HEYWOOD HODDER, Ph.M., Professor of American History and Political Science and Director of University Publications, University of Kansas.
- GEORGE BURTON HOTCHKISS, M.A., Professor of Business English and Head of the Department of Advertising and Marketing, New York University.
- DUANE GARRISON HUNT, A.B., formerly Instructor in Elocution and Debating, University of Utah.
- FELIX HENRI HURNI, B.S., Assistant in Anatomy.
- \*CHARLES GILMAN HYDE, B.S., Professor of Sanitary Engineering and Acting Dean of the College of Civil Engineering.
- CHARLES L. JACOBS, M.A., Director of Industrial Education and Vocational Guidance, San Francisco.
- RAMÓN JAÉN, Professor of Spanish, United States Military Academy, West Point.
- ELIAS O. JAMES, M.A., Assistant Professor of English, Mills College.
- NELLY W. JANSSON, Technical Assistant in Household Art in the Summer Session.
- CHARLES J. JORDAN, M.A., Instructor in Modern Languages, High School, Brookline, Mass.
- ALEXANDER S. KAUN, Ph.B., Instructor in Slavic Languages in the Summer Session.
- WILLIAM WEBB KEMP, Ph.D., Professor of School Administration.
- FRANK A. KENT, Supervisor of Penmanship, Stockton Public Schools.
- OLLY JASPER KERN, Assistant Professor of Agricultural Education.
- WILLIAM HENRY KIEKHOFER, A.B., Assistant Professor of Political Economy, University of Wisconsin.
- LILY KINGCADE, Instructor in Physical Education, McKinley Avenue Intermediate School, Los Angeles.
- CLARA BARBARA KIECHWEY, Instructor in Geography, Teachers College, Columbia University.
- FRANK LOUIS KLEEBOERGER, M.A., Director of Men's Gymnasium and Associate Professor of Physical Education.

---

\* In the Summer School of Surveying, Camp California, Swanton, California.

- †CHARLES ATWOOD KOFOID, Ph.D., Sc.D., Professor of Zoology and Assistant Director of the Scripps Institution for Biological Research.
- CARL A. KRAUSE, Ph.D., Head of Modern Language Department, Jamaica High School, New York, and Lecturer in New York University.
- BENJAMIN PUTNAM KURTZ, Ph.D., Associate Professor of English.
- MABEL W. LANE, Director of Physical Education for Women, State Normal School, Oshkosh, Wis.
- \*WILFRED FRANCIS LANGELIER, M.S., Assistant Professor of Sanitary Engineering.
- HERBERT BAMFORD LANGILLE, A.B., Assistant Professor of Machine Design and Mechanical Drawing.
- GEORGE L. LAWRENCE, M.A., Instructor in Spanish, San Diego High School.
- ERWIN J. LEA, M.S., Associate Professor of Nutrition and Director of the California State Food and Drug Laboratory.
- C. D. LEE, Superintendent of Bureau of Records, Police Department of the City of Berkeley.
- DORA LEMON, M.S., Instructor in the Play School in the Summer Session.
- JAMES HUFF McCURDY, Director of International Young Men's Christian Association Training School, Springfield, Mass.
- †GEORGE FRANCIS MCEWEN, Ph.D., Hydrographer and Curator of the Oceanographic Museum in the Scripps Institution for Biological Research.
- E. SPENCER MACKY, Instructor in Freehand Drawing, California School of Arts and Crafts.
- GEORGE STEWART MCMANUS, Special Instructor in Pianoforte Technique in the Summer Session.
- CHARLES LELAND McVEY, B.S., M.D., Physician for Men.
- ELIZABETH S. MADISON, Librarian, Oakland High School.
- WILLIAM WHITNEY MANATT, Instructor in Clay Modeling, California School of Arts and Crafts.
- ANTONIO MARINONI, M.A., Professor of Romance Languages, University of Arkansas.
- LAURA E. MARSHALL, Instructor in Drawing, Berkeley High School.
- DANIEL GREGORY MASON, A.B., Assistant Professor of Music, Columbia University.
- O. C. MAUTHE, Director of the School of Physical Education, Stout Institute.
- HENRY MAYER, A.B., Instructor in Mathematics, Fresno Junior College.
- †ELLIS LEROY MICHAEL, M.S., Zoologist and Administrative Assistant in the Scripps Institution for Biological Research.

---

\*In the Summer School of Surveying, Camp California, Swanton, California.

†At La Jolla.

- LOYE H. MILLER, Ph.D., Professor of Biology, State Normal School, Los Angeles.
- STEPHEN IVAN MILLER, Jr., LL.B., Assistant Professor of Economics, Stanford University.
- SYDNEY BANCROFT MITCHELL, M.A., Head of Accessions Department, University of California Library.
- GUY MONTGOMERY, A.B., Teaching Fellow in English.
- AGNES FAY MORGAN, Ph.D., Assistant Professor of Household Science.
- FRANK RAY MORRIS, M.A., Teaching Fellow in Mathematics.
- WILLIAM ALFRED MORRIS, Ph.D., Assistant Professor of English History.
- FRANK FIELDING NALDER, Ph.D., Secretary, Bureau of Correspondence Instruction, University Extension Division.
- JAY B. NASH, A.B., Assistant Superintendent of Recreation, Oakland.
- FERDINAND JOHN NEUBAUER, M.A., Fellow in the Lick Observatory.
- EUGEN NEURHAUS, Assistant Professor of Decorative Design.
- HELEN RICH NORTON, A.B., Instructor in School Salesmanship, Women's Educational and Industrial Union of Boston.
- HERBERT CHESTER NUTTING, Ph.D., Assistant Professor of Latin.
- ARTHUR W. NYE, B.S., M.E., Professor of Physics and Electrical Engineering, University of Southern California.
- THOMAS J. ORBISON, M.D., Lecturer in Criminology in the Summer Session.
- S. L. OSBORNE, Head Teacher of Physical Training, Berkeley High School.
- GERTRUDE PARSONS, Head of Music Department, Polytechnic High School, Los Angeles.
- MARY F. PATTERSON, Assistant Professor of Household Art.
- GERTRUDE PERCIVAL, Laboratory Assistant in Household Art.
- D. W. POLLARD, Scout Executive, Los Angeles.
- AMY E. POPE, Instructor of Nurses, St. Luke's Hospital, San Francisco.
- WILLIAM KELLY PRENTICE, Ph.D., Professor of Greek, Princeton University.
- LAWRENCE MARSDEN PRICE, Ph.D., Instructor in German.
- CORA M. PRYOR, Instructor in Stenography, Oakland Technical High School.
- THOMAS MILTON PUTNAM, Ph.D., Associate Professor of Mathematics and Dean of the Lower Division.
- PAUL RADIN, Ph.D., Assistant Professor of Anthropology, Mills College.
- FRANCIS RAMALEY, Ph.D., Professor of Biology, University of Colorado.
- EDITH REID, Director of Physical Education, California School for Girls, Ventura.
- RACHEL T. RICHARDSON, B.S., Instructor in Manual Arts, State Normal School, Los Angeles.
- RAYMOND RIGHTSSELL, A.B., Assistant Observer, U. S. Weather Bureau, St. Louis, Missouri.
- †WILLIAM EMERSON RITTER, Ph.D., Professor of Zoology and Scientific Director of the Scripps Institution for Biological Research.

---

†At La Jolla.

- T. BRAILSFORD ROBERTSON, Ph.D., Sc.D., Professor of Biochemistry.  
WENDELL PRESCOTT ROOP, A.B., Instructor in Physics.  
PERCY E. ROWELL, M.S., Director of Science, A-to-Zed School, Berkeley.  
DANIEL RYGEL, Instructor in Tailoring in the Summer Session.  
HUGO KARL SCHILLING, Ph.D., Professor of German Language and Literature.  
ALFRED HENRY SCHMIDT, M.A., Assistant in German.  
ALBERT SCHNEIDER, M.D., Ph.D., Professor of Pharmacognosy, Economic Pharmaceutical Botany, Histology, and Bacteriology in the California College of Pharmacy; Instructor in Materia Medica in the Medical School, and Dean of the Berkeley School for Police Officers.  
ESTHER SCHNEIDER, President California Camp Fire Guardians Association.  
RICHARD FREDERICK SCHOLZ, Ph.D., Assistant Professor of Ancient History.  
ROY EDWIN SCHULZ, A.B., Professor of the Spanish Language, University of Southern California.  
FREDERICK HANLEY SEARES, B.S., Superintendent of Computing Division, Mount Wilson Solar Observatory, Pasadena.  
CARL EMIL SEASHORE, Ph.D., Professor of Psychology and Dean of the Graduate College, State University of Iowa.  
CHARLES LOUIS SEEGER, Jr., A.B., Professor of Music.  
RAYMOND S. SEWARD, A.B., Instructor in Physics, Lindsay High School.  
MARY S. SHAFTER, Instructor in Dancing and Festival Work in the Summer Session.  
HERBERT STANLEY SHUEY, B.S., Special Lecturer in Economics.  
ANDREW SMITH, B.S., Head Football Coach for the Associated Students of the University of California.  
DOROTHY SNAVELEY, Supervisor of Music, Little Falls Public Schools, Minnesota.  
ALFRED SOLOMON, M.A., Instructor in French.  
CLAIRE SOULÉ, A.B., Instructor in English, Pasadena High School.  
JAMES P. C. SOUTHALL, M.A., Assistant Professor of Physics, Columbia University.  
ELVA B. SPENCER, A.B., Teacher of Art, Glendale High School.  
PAULINE SPERRY, Ph.D., Assistant Professor of Mathematics, Smith College.  
ROBERT G. SPROUL, B.S., Scout Executive, Berkeley.  
PAUL STEINDORFF, Choragus.  
IDA MAY STEVENS, M.A., Assistant in Hygiene.  
LAWRENCE STRAUSS, Special Instructor in Voice in the Summer Session.  
ARTHUR IRWIN STREET, A.B., Lecturer on the Educational Uses of Current Events in the Summer Session.  
EDWARD GRIFFITH STRICKLEN, Instructor in Music.  
†FRANCIS BARTODY SUMNER, Ph.D., Biologist in the Scripps Institution for Biological Research.

---

†At La Jolla.

- EDNA SUTHERLAND, Instructor in Public Speaking, College of Manitoba.
- MARY ELIZABETH SUTHERLAND, B.S., Assistant Professor of Home Economics, State College of Washington.
- ANNA E. SWAINSON, M.A., Instructor in Primary Manual Arts, State Normal School, Los Angeles.
- CHARLES VINCENT TAYLOR, M.A., Instructor in Zoology in the Summer Session.
- JOHN L. TAYLOR, Assistant in Pattern Making in the Summer Session.
- LINDA TAYS, Assistant in Spanish.
- LESLIE MORTON TURNER, D. ès L., Assistant Professor of French.
- MARIE VAN GASTEL, Instructor in French, Dallas High School, Texas.
- AUGUST VOLLMER, Chief of Police of the City of Berkeley.
- RUFUS BERNHARD VON KLEINSMID, M.A., Sc.D., Professor of Philosophy and Psychology and President of the University of Arizona.
- CHARLES DON VON NEUMAYER, Assistant Professor of Public Speaking.
- OLIVER MILES WASHBURN, A.B., Assistant Professor of Classical Archaeology.
- THOMAS TALBOT WATERMAN, Ph.D., Assistant Professor of Anthropology.
- CHAUNCEY WETMORE WELLS, A.B., Associate Professor of English Composition.
- HORACE WHITEHOUSE, Professor of Organ and Musical Theory and Dean of the School of Fine Arts, Washburn College.
- BELLE H. WHITICE, Instructor in Art Crafts, State Normal School, Los Angeles.
- NÉYSA MATHE WIHR, Solo Danseuse and Teacher, New York.
- NELL K. WILLS, Instructor in Basketry in the Summer Session.
- ALBERT E. WILSON, Ph.D., Principal, Manual Arts High School, Los Angeles.
- HAROLD RICHARDS WILSON, A.B., Boy Scout Executive, Oakland.
- \*CLEMENT TEHLE WISKOCIL, C.E., Instructor in Civil Engineering.
- JEAN REGINALD WOLD, Instructor in Aesthetic Dancing, Reed College.
- CLYDE L. E. WOLFE, M.A., Associate Professor of Mathematics and Instructor in Accounting, Occidental College.
- BALDWIN MUNGER WOODS, Ph.D., Assistant Professor of Theoretical Mechanics and University Examiner.
- CHARLES WILLIAM WOODWORTH, M.S., Professor of Entomology.
- HARRY NOBLE WRIGHT, Ph.D., Instructor in Mathematics.
- WILLSON JOSEPH WYTHE, B.S., Assistant Professor of Mechanical Drawing.

---

\* In the Summer School of Surveying, Camp California, Swanton, California.

## COURSES OF INSTRUCTION

---

The University reserves the right to withdraw any course in which the initial enrollment may be deemed to be insufficient. As a rule, an enrollment of less than four will be regarded as insufficient; in the Department of Agriculture an enrollment of less than eight, in any course, may lead to its withdrawal.

The University also reserves the right at any time to restrict attendance and enrollment in any course if for any reason such restriction becomes necessary.

---

### AGRICULTURE

CHARLES WILLIAM WOODWORTH, M.S., Professor of Entomology.

JOHN WASHINGTON GILMORE, M.S.A., Professor of Agronomy.

OLLY JASPER KERN, Assistant Professor of Agricultural Education.

The Department of Agriculture of the University of California comprises twenty-three divisions, as follows: agricultural chemistry, agricultural education, agricultural extension, agronomy, animal husbandry, citriculture, dairy industry, entomology, floriculture and landscape gardening, farm mechanics, forestry, genetics, horticulture, nutrition, olericulture, plant pathology, poultry husbandry, pomology, irrigation, soil chemistry and bacteriology, soil technology, veterinary science, viticulture and enology.

Five of these divisions—animal husbandry, dairy industry, farm mechanics, olericulture, and poultry husbandry—have their headquarters at the University Farm, Davis. The remaining divisions have their headquarters on the University campus at Berkeley. Some of the work of many of them, however, is located in different parts of the state.

The Citrus Experiment Station and Graduate School of Tropical Agriculture is located at Riverside. The Southern California Plant Pathological Laboratory is at Whittier. Investigations in agronomy, drainage, and viticulture are being conducted at the Kearney Ranch, belonging to the University of California, near Fresno. Investigations in agronomy and horticulture are in progress upon the University's Imperial Valley Farm near El Centro.

On the University campus at Berkeley are located the laboratories of agronomy, agricultural chemistry, fertilizer control, insecticides, nutrition, plant pathology, pomology, soil chemistry and bacteriology, soil technology, viticulture and enology, and veterinary science.

Greenhouses and cultivated areas furnish practice in plant propagation, gardening and floriculture. Special structures give opportunity for instruction in entomology, forestry, genetics, parasitology, and veterinary science.

A sanitary milk dairy is located upon the University grounds, while a hog serum laboratory is in the vicinity.

One hundred and seventy investigations have been reported upon during the past half-year by various members of the agricultural staff. This research work gives the scientific environment which is useful to those taking work in the summer session.

The headquarters of the Department of Agriculture, together with several of the divisions, are in Agriculture Hall, in the northwest portion of the campus, while the other divisions are to be found in Budd Hall, on the south side of the campus.

### **AGRICULTURE**

- |                                     |                    |
|-------------------------------------|--------------------|
| 1. Fundamentals of Agriculture. (2) | Professor GILMORE. |
| 201. Research. (To be arranged.)    | The STAFF.         |

### **AGRICULTURAL EDUCATION**

- |   |                           |
|---|---------------------------|
| S1. The Elements of Agriculture, Nature Study and School Gardens. (2) | Assistant Professor KERN. |
| 9. Rural School Administration. (2)                                   | Assistant Professor KERN. |

### **ENTOMOLOGY**

- |                                |                      |
|--------------------------------|----------------------|
| S6. Elementary Entomology. (2) | Professor WOODWORTH. |
| S102. Advanced Entomology. (2) | Professor WOODWORTH. |

### **ANATOMY**

- |  |                             |
|--|-----------------------------|
| S102. General Human Anatomy. (3)                   | Assistant Professor CORNER. |
| S105, S106 or S107. Systematic Human Anatomy. (3½) | Assistant Professor CORNER. |

### **ANTHROPOLOGY**

- |                                 |                            |
|---------------------------------|----------------------------|
| 1. Prehistoric Archaeology. (2) | Assistant Professor RADIN. |
| 3. Primitive Literature. (2)    | Assistant Professor RADIN. |

### **ASTRONOMY**

- |  |                   |
|--|-------------------|
| S1. Elements of Astronomy. (2)               | Professor SEARES. |
| S2A. Practice in Observing. (1)              | Dr. NEUBAUER.     |
| S11. Modern Astronomy. (1)                   | Professor SEARES. |
| S104. Navigation and Nautical Astronomy. (4) | Dr. NEUBAUER.     |
| 112. Stellar Photometry. (1)                 | Professor SEARES. |



**BOTANY**

- S3. General Botany. (3) Professor RAMALEY and Mr. HEATH.  
4. California Flora. (2) Mr. HEATH.  
101. Principles of Plant Ecology. (2) Professor RAMALEY.

**CHEMISTRY**

- A. Elementary Chemistry. (To be arranged.)  
Dr. ARGO, Dr. GIBSON, and Dr. BRANCH.  
S5. Quantitative Analysis: Gravimetric and Volumetric. (3) Dr. GIBSON.  
S8A. Elements of Organic Chemistry. (2) Professor FRANKLIN.  
S100. Organic Chemistry: Laboratory. (2 or 3) Dr. BRANCH.  
S280. Chemical Research. (Not to exceed 3.) The STAFF.  
S294. Seminar. (1) Assistant Professor HILDEBRAND.  
295. Seminar. (1) Professor FRANKLIN.

**CIVIL ENGINEERING**

- Civil Engineering 3. (3)  
Associate Professor FOOTE, Assistant Professors ALVAREZ, EDDY and  
LANGELIER, Mr. WISKOCIL, Mr. HAYWARD, Dr. EINARSSON and  
Assistants.  
Civil Engineering 103. (3)  
Associate Professor FOOTE, Assistant Professors ALVAREZ, EDDY and  
LANGELIER, Mr. WISKOCIL, Mr. HAYWARD, and Assistants.

**COMMERCE**

**Accounting**

- S14. Elementary Accounting. (2) Professor HASTINGS.  
S105. Business Organization. (2) Professor HASTINGS.

**Office Practice**

- A. Stenography Theory. (4) Miss PRYOR.  
B. Intermediate Stenography—Gregg Theory. (2) Mr. ARMSTRONG.  
C. Stenotypy. (No credit.) (To be arranged.)  
D. Introductory Typewriting. (1) Miss DEARBORN.  
E. Intermediate Typewriting. (1) Mr. BARZEE.  
F. Advanced Typewriting. (1) Mr. BARZEE.  
7. Penmanship. (No credit.) Mr. KENT.  
10. Business Methods. (2) Mr. ARMSTRONG.  
11. Store Salesmanship. (2) Miss NORTON.

**Economic Geography**

1. Economic Geography. (2)

Mr. BARNHART.

**Commercial Education**

1. The High School Commercial Department. (2)

Mr. BARNHART.

2. The High School Course in Stenography. (2)

Miss PRYOR.

3. The High School Course in Typewriting. (2)

Miss DEARBORN.

4. The Teaching of Store Salesmanship. (2)

Miss NORTON.

Business Composition. (See English 11c.)

Advertising Copy. (See English 106A.)

**DRAWING**

- CD. Instrumental Drawing. (2)

Mr. ALBRECHT.

- EF. Projective Drawing. (2)

Assistant Professor WYTHE.

- S2A. Descriptive Geometry. (3)

Mr. BROWER.

- S2B. Descriptive Geometry. (Continuation of S2A.) (3)

Mr. BROWER.

- S9. Lettering. (1)

Mr. ALBRECHT.

- S101. Course for Teachers. (2)

Assistant Professor WYTHE.

- S105. Graphostatics. (2)

Mr. BROWER.

**ECONOMICS**

- S1A. Elements of Economics. (2)

Assistant Professor MILLER.

- S1B. Advanced Economics. (2)

Assistant Professor MILLER.

3. Principles of Sociology. (2)

Assistant Professor KIEKHOFER.

20. Foreign Trade. (2)

Mr. SHUEY.

- S101. Economic and Commercial History. (2)

Assistant Professor CROSS.

103. Social Psychology. (2)

Assistant Professor KIEKHOFER.

**SCHOOL OF EDUCATION****Education**

14. Elementary Education. (2)

Miss DAY.

15. The Education of Early Childhood. (1)

Miss HARRISON.

16. Curricula for Early Childhood. (2)

Miss HARRISON and Miss BARBOUR.

41. Educational Uses of Current Events. (1)

Mr. STREET.

101. Theory and Practice of Instruction in Introductory or General Science. (2)

Mr. ROWELL.

- S103B. History of Education; Modern Period. (2)

Mr. BOLIN.

- S108. Contemporary Movements in the Administration of Education. (2)

Professor KEMP.

112. Elementary School Problems. (2)

Miss DAY.

114. The Education of Exceptional Children. (2)

Mr. DOLL.

115. Correctional Education. (2) Dr. NALDER.  
 117. Social Aspects of Education. (2) Dr. NALDER.  
 119. Theory and Practice of Vocational Guidance. (2) Mr. JACOBS.  
 120. Problems in Vocational Guidance. (1 or 2) Mr. JACOBS.  
 S208. Public Administration of School Systems. (Seminar) (2) Professor KEMP.  
 214. Mental Measurement in Education. (2) Mr. DOLL.  
 S215. Special Studies. (See the Bulletin of the School of Education.)  
 221. Social and Administrative Problems of Secondary Education. Dr. WILSON.  
 (2)

### **The Play School**

31. Observation Leadership or Teaching. (1 or 2) Mrs. HETHERINGTON and STAFF.  
 32. The Organization, Activities and Methods of the Play School. (1 or 2) Professor HETHERINGTON and PLAY SCHOOL STAFF.  
 34. Child Life and Education. (2) Professor HETHERINGTON.  
 Theory and Method Courses in Relation to the Play School.  
 The Education of Early Childhood. Miss HARRISON.  
 (See Education 15, above.)  
 Curricula for Early Childhood. Miss HARRISON and Miss BARBOUR.  
 (See Education 16, above.)  
 17. Methods in Linguistic Activities. (2) Mrs. CATHER and PLAY SCHOOL STAFF.  
 18. Methods in Rhythmic and Musical Activities. (2) Mrs. DORRETT.  
 19. Methods in Manual Activities. (2) Mr. BEST.  
 20. Procedure and Methods in Organized Social Activities. (1) (To be arranged.)  
 21. Methods in Environment and Nature Activities. (1) (To be arranged.)

### **ENGLISH**

- S1B. Exposition. (2) Mr. MONTGOMERY.  
 S1C. Business Composition. (2) Professor HOTCHKISS.  
 History of English Literature.  
 S2A. From the Beginnings to the Elizabethan Period. (2) Miss DODGE.  
 S2B. From the Age of Elizabeth to the End of the Eighteenth Century. (2) Miss DODGE.  
 S2C. Main Types of Elizabethan Drama. (2) Assistant Professor JAMES.  
 S6. Narration. (2) Assistant Professor BLANCHARD.  
 14. Modern Drama. (1) Professor AXSON.  
 S106A. Advertising Copy. (2) Professor HOTCHKISS.  
 S106G. Advanced Narration. (2) Assistant Professor JAMES.

- S109. Lectures on Poetry. Associate Professor KURTZ.  
 S109A. Beginnings of Poetry; ancient poetry and criticism. (2)  
 S109B. Modern Poetry and criticism. (2)  
 S117A. Shakespeare. (2) Professor AXSON.  
 S130. Studies in American Literature and Biography. (1)  
 Professor AXSON.  
 S125A. Nineteenth Century Novelists. (2)  
 Assistant Professor BLANCHARD.  
 S155. The High School Course in English. (2) Miss SOULÉ.  
 S250. Seminar in the Theory of Fiction. (2) Associate Professor WELLS.  
 257. Seminar in the Principles of Literature. (2)  
 Associate Professor WELLS.

### GEOGRAPHY

120. The Teaching of Geography in Elementary Schools with Special  
 Reference to Regional Geography. (2) Miss KIRCHWEY.  
 121. The Teaching of Geography in Secondary Schools. (2)  
 Miss KIRCHWEY.

### GERMAN

- A. The Elements of German. (Double Course.) (4)  
 Dr. KRAUSE and Dr. PRICE.  
 B. Advanced Elementary German. (Double Course.) (4) Mr. JORDAN.  
 D. Intermediate German. (2) Mr. JORDAN  
 S105(1). Introduction to Recent Literature. (2) Mr. SCHMIDT.  
 \*105(2). Introduction to Recent Literature. (2)  
 \*S105(3). Classics of the Eighteenth Century. (2)  
 \*S106A. Grammar, Composition and Conversation. (2)  
 \*S106B. Grammar, Composition and Conversation. (2)  
 \*S106C. Grammar, Composition and Conversation. (2)  
 S106D. Grammar, Composition and Conversation. (2) Dr. HELLER.  
 S106E. Conversation. (1) Mr. SCHMIDT.  
 S116A. Middle High German. (2) Professor SCHILLING.  
 S121BD. Courses for Teachers. (2) Dr. KRAUSE.  
 \*S121F. Problems in the Teaching of Grammar. (1)  
 \*S206A. Composition.  
 S206B. Composition. (2) Dr. HELLER.  
 211. Shakespeare in Germany. (1) Dr. PRICE.  
 \*212. German Prose Fiction in the Nineteenth Century. (2)  
 \*S226. The German Drama of the Nineteenth Century. (2).  
 \*S226A. Pro-seminar in the German Drama of the Nineteenth Century.  
 (To be arranged.)

---

\* Not to be given in 1917.

- S230.** The German Drama of the Present Day. (2) Professor SCHILLING.  
**S250.** Germanic Seminar. (To be arranged.) Professor SCHILLING.

**GRAPHIC ART**

- A.** Freehand Drawing and Perspective. (1) Mr. MACKY and Miss SPENCER.  
**S1A.** General History of Ancient Art. (2) Assistant Professor WASHBURN.  
**S1B.** The Development of Painting. (2) Assistant Professor NEUHAUS.  
**S6A.** Elementary Design. (1) Miss MARSHALL and Assistants.  
**113.** Modeling. (1) Mr. MANATT.  
**S115AB.** Figure Drawing and Composition. (1) Mr. MACKY.  
**S116A.** Painting of Still Life. (1) Miss BOONE.  
**120.** Plant Analysis. (1) Assistant Professor NEUHAUS.  
**121.** Teachers' Course. (2) Miss MARSHALL and Assistant.

**GREEK**

- 4.** The Ancient Greeks, Their Literature and Life. (2) Professor PRENTICE.  
**100.** Thucydides and the Peloponnesian War. (2) Professor PRENTICE.

**HISTORY**

- S111B.** The History of the Mediterranean World from about 1200  
B.C. to Augustus. (2) Assistant Professor SCHOLZ.  
**153.** England Under the Tudors and the Stuarts. (2)  
Assistant Professor MORRIS.  
**S301.** The Teaching of History in Secondary Schools. (1)  
Assistant Professor MORRIS.  
**302.** Recent Progress in the Study of Ancient History. (1)  
Assistant Professor SCHOLZ.  
**170.** The American Revolution. (2) Professor HODDER.  
**174.** The Prelude to the Civil War. (2) Professor HODDER.  
**S282.** Seminar in Western History. (2) Professor BOLTON.

**HISTORY OF SCIENCE**

- 1.** The History of Science and its Relation to Human Welfare. (1)  
Professor ROBERTSON.

**HOME ECONOMICS**

- A.** Elementary Sewing. (1) Miss FANCHER.  
**B.** Advanced Sewing and Dressmaking. (1)  
Mrs. BEMENT and Mrs. JANSSON.  
**C.** Practical Tailoring. (1) Mr. RYGEL.  
**183.** Historic Embroidery. (2) Miss HAGUE.

185. Design and Color Theory as the Basis of Household Art. (3)

Mr. CLARK.

186. Application of Design in Problems in Household Art. (3) Mr. CLARK.

S297. Advanced Study in Household Art Subjects.

Assistant Professor PATTERSON

### HOUSEHOLD SCIENCE

A. Elementary Cooking. (3)

Miss BROWN.

B. Advanced Cooking. (3)

Miss FISHER.

1A. Theory and Practice of Cooking Processes. (3)

Assistant Professor SUTHERLAND.

1B. Practice in the Preparation of Meals. (3)

Assistant Professor SUTHERLAND.

2. Dietetics for Public Health Visitors. (2) Assistant Professor MORGAN.

113. Dietetics. (2)

Assistant Professor MORGAN.

S124. Research. (To be arranged.)

Assistant Professor MORGAN.

S216. Seminar in Problems of Metabolism. (2)

Assistant Professor MORGAN.

### JOURNALISM

1. The Elements of News Writing. (2) Professors DYMENT and CASEY.

2. The Art of Composition in News Writing. (2) Professor DYMENT.

3. The Preparation of Copy for Publication. (1)

Professors DYMENT and CASEY.

### LATIN

S2. Selections from Latin Poetry. (2)

Assistant Professor DEUTSCH.

S135. Teachers' Training Course. (1)

Assistant Professor NUTTING.

S151. Cicero; Tusculan Disputations. (2)

Assistant Professor NUTTING.

S185. Advanced Latin Composition. (1)

Assistant Professor NUTTING.

S193. Virgil from the Monuments. (1)

Assistant Professor WASHBURN.

S277. The Life of Caesar. Seminar. (2)

Assistant Professor DEUTSCH.

S283. Seminar in Classical Archaeology. (1)

Assistant Professor WASHBURN.

### LAW

S18. Commercial Law. (2)

Dr. CALKINS.

S111. The Law of Property, I. (4)

Professor FRASER.

S229. Code Procedure. (4)

Dr. HARRISON.

### CRIMINOLOGY

113A. Medical and Psychological Problems. (2)

Dr. HOAG.

113B. Practice Work in Criminology. (2)

Dr. HOAG.

113C. The Investigation of Crime. (2)

Mr. HEINRICH.

113D. Field and Laboratory Methods in Criminal Investigation. (2)

Mr. HEINRICH.

**LIBRARY METHODS**

Credit not to exceed 6 units may be granted for the entire course.

Mrs. BREWITT, Miss COULTER, Mrs. MADISON, Mr. MITCHELL

1. Cataloguing and Classification, including Shelf Listing. 30 periods.
2. Reference Work. 10 periods.
3. Book Buying and Selection of Books. 8 periods.
4. High School Libraries. 5 periods.
5. Loan Systems. 2 periods.
6. Binding and Repair of Books. 2 periods.
7. Library Buildings and Equipment. 2 periods.
8. California Library Law and Conditions. 2 periods.

**MANUAL ARTS**

1. Manual Arts for the Graded Elementary School. (1)  
Miss RICHARDSON and Miss SWAINSON.
2. Manual Arts for the Rural School. (1)  
Miss FADDIS.
- 3A. Bookbinding. (1)  
Miss WHITICE.
- 3B. Bookbinding. (1)  
Miss WHITICE.
4. Basketry. (1)  
Miss WILLS.
101. Manual Arts Education for the Elementary School. (2)  
Miss RICHARDSON.

**MATHEMATICS**

- A. Graphic Algebra. (2)  
Associate Professor PUTNAM.
- B. Solid Geometry. (2)  
Mr. MORRIS.
- C. Plane Trigonometry. (2)  
Associate Professor WOLFE and Mr. MORRIS.
- F. Advanced Algebra. (2)  
Assistant Professor SPERRY.
85. Plane Analytic Geometry. (2)  
Associate Professor WOLFE.
- S6. Synthethic Projective Geometry. (2)  
Dr. WRIGHT.
- S9. Differential Calculus. (2 or 3)  
Dr. WRIGHT.
51. Military Mathematics. (No credit.)  
Associate Professor WOLFE.
- 103A. Survey of Elementary Mathematics. (2)  
Professor HEDRICK.
- S109. Integral Calculus. (2 or 3)  
Professor HASKELL and Associate Professor NOBLE.
116. The Mathematics of Investment. (2)  
Professor HASKELL and Associate Professor NOBLE.
126. Functions of a Real Variable. (2)  
Professor HEDRICK.
203. Seminar in Modern Analytic Geometry. (2)  
Assistant Professor SPERRY.
- S224. Theory of Functions of a Complex Variable. (2)  
Associate Professor PUTNAM.

**MECHANICAL ENGINEERING**

- A. Elementary Benchwork in Wood. (1) Mr. Cox and Mr. TAYLOR.  
 B. Advanced Cabinet Making. (1) Mr. Cox.  
 C. Wood Turning. (1) Mr. Cox.  
 5. Telegraphy, Telephony, and Wireless Telegraphy. (2) Mr. GREVES.  
 10. Automobile Construction. (1) Mr. JONES.  
 18. Pattern Making. (2) Mr. Cox and Mr. TAYLOR.  
 19. Machine Shop Practice. (2) Mr. GEORGE.

**MUSIC**

- 3b. History of Instrumental Music. (1) Professor MASON.  
 3c. History of Instrumental Music. (1) Professor MASON.  
 6. The Theory and Practice of Music at the Present Day. (1)  
 Professor WHITEHOUSE.  
 A. Notation and Ear-training, I. (1) Miss SNAVELY.  
 B. Ear-training, II. (1) Mr. ANDERSON.  
 C. Ear-training, III. (1) Mrs. PARSONS.  
 4. Introduction to Diatonic Harmony and to Melody Writing. (2)  
 Mr. ANDERSON.  
 S4A. Diatonic Harmony and Elementary Composition, I. (2)  
 Mr. STRICKLEN.  
 4b. Diatonic Harmony and Elementary Composition, II. (2)  
 Professor WHITEHOUSE.  
 S5A. Chromatic Harmony and Elementary Composition, III. (2)  
 Mr. STRICKLEN.

*Performance*

- S6A. Musicianship. (2) Mr. STEINDORFF.  
 1. Choral Practice. (1) Mr. STEINDORFF.  
 2. Orchestral Practice. (1) Mr. STEINDORFF.  
 10. Lessons in Singing. (1) Mr. STRAUSS.  
 30. Lessons in Piano-playing. (2) Mr. McMANUS.

*Pedagogy*

21. The Teaching of Music in the Primary and Grammar Schools. (2)  
 Miss SNAVELY.  
 22. The Teaching of Music in the High School. (2) Mrs. PARSONS.  
 110. The Foundations of Musical Education. (1) Professor SEEGER.  
 The Psychology of Musical Talent. (See Philosophy 101.)  
 Professor SEASHORE.

**PARLIAMENTARY LAW**

1. The Theory and Practice of Parliamentary Law. (No credit.)  
 Mrs. BARRY.



### PHILOSOPHY

- S2. Introduction to Psychology. (2) Professor SEASHORE.  
 101. The Psychology of Musical Talent. (2) Professor SEASHORE.  
 S112. Problems of Religion. (2) Associate Professor ADAMS.  
 S135. Contemporary Problems and Movements in Philosophy. (2) Associate Professor ADAMS.

### PHYSICAL EDUCATION

#### Gymnastics

- S1A. Elementary Gymnastics: Light Apparatus (½) Mr. MAUTHE.  
 S1CD. Elementary Gymnastics: Heavy Apparatus. (1) Mr. OSBORNE.  
 1E. Elementary Gymnastics: Swedish. (½) Miss LANE.  
 2AB. Advanced Gymnastics: Light Apparatus. (1) Mr. MAUTHE.  
 2CD. Advanced Gymnastics: Heavy Apparatus. (1) Mr. OSBORNE.  
 2EF. Advanced Gymnastics: Swedish. (1) Miss LANE.  
 2GH. Schoolroom Gymnastics. (1) Miss LANE.  
 S3A. Therapeutic Gymnastics: Clinic. (1) Dr. MCCURDY.  
 S4A. General Recreation. (½) Miss SHAFER and Mr. COZENS.

#### Athletics

- S5A. American Football. (½) Mr. SMITH.  
 S5B. Track and Field. (½) Mr. CHRISTIE.  
 S5C. Baseball. (½) Mr. COZENS.  
 S5D. Basketball. (½) Mr. CHERRINGTON.  
 S6A. Soccer. (½) Mr. COZENS.  
 S7A. Elementary Boxing. (½) Professor KLEEGER and Mr. FREED.  
 S8A. Elementary Wrestling. (½) Mr. FREED.  
 S9A. Conditioning and Care of Athletes. (1) Mr. OSBORNE.  
 S10A. Swimming: for Men. (½) Mr. BLEWETT.  
 10B. Swimming: for Women. (½) Miss CADWELL.  
 S11A. Tennis. (½) Miss KINGCADE.  
 14AB. Athletic Activities for Women. (1) Miss BLANCHARD and Mr. CHRISTIE.  
 S12A. Elementary Fencing. (½) Mr. MAUTHE.

#### Rhythmics

- 15A. Folk Dancing for Schools and Playgrounds. (½) Miss SHAFER.  
 15B. Advanced Folk Dancing. (½) Miss SHAFER and Miss GRAY.  
 16AB. Elementary Dancing. (1) Miss WIHR, Miss GRAY, and Miss WOLD.  
 16CD. Advanced Aesthetic Dancing. (1) Miss WIHR and Miss WOLD.  
 17A. Gymnastic Dancing for Men and Women. (½) Mr. MAUTHE.  
 17B. Advanced Gymnastic Dancing for Men and Women. (½) Mr. MAUTHE.

**Recreational Education**

- 18A. Children's Singing Games: Adult Class. (‡)  
 18B. Plays and Games: Adult Class (‡) Miss LANE.  
 18CD. Dramatic and Dancing Games, Pantomimes and Festivals. (1) Miss SHAFER.  
 Theory of Kindergarten Education. (See Education 15.)  
 Theory of the Play School. (See Education.)  
 25. Gesture. (No credit.) Mrs. GRAY.  
 S107B. Practical Conduct of Playground Activities. (1) Mr. NASH.  
 108A. Theory of the Camp Fire. (1)  
 108B. Theory of Boy Life Organizations. (1) Mr. CROSS and Mr. DE GROOT.  
 S110AB. The Practice of Teaching. (1) Professor KLEEBERGER and STAFF.

**Directed Activities**

- Education of Early Childhood. (See Education.)  
 Play School Activities. (See Education.)  
 20AB. Camp Fire Girls Activities. (1)  
 20CD. Boy Scout and Pathfinder Activities. (1)  
     Mr. CROSS, Mr. POLLARD, Mr. HANSON, and Mr. WILSON.  
 21AB-21CD. Playground Activities. Mr. NASH and Mr. FINDLAY.  
     21AB. For first-year students. (1)  
     21CD. For students who have had course 21AB or its equivalent. (1)

**General Theory**

- \*S100A. Physiology of Exercise.  
 \*S101A. Kinesiology.  
 S101B. Therapeutics Gymnastics. (1) Dr. McCURDY.  
 S102AB. History and Theory of Physical Education. (2) Dr. McCURDY.

**PHYSICS**

- A. Elements of Physics. (3)  
     Mr. GRAHAM, Mr. MAYER, Mr. SEWARD, Mr. RIGHTSELL, and Mr. GREENE.  
 S1AB. General Physics. (6) Professor NYE, Mr. ROOP, and Dr. GARDNER.  
 S3AB. Physical Measurement. (Not to exceed 4) Dr. GARDNER.  
 \*S108. Theory of Modern Optical Instruments. (2)  
     Assistant Professor SOUTHALL.  
 \*117. Vision. (2) Assistant Professor SOUTHALL.  
 120. Course for Teachers. (2) Mr. ROOP.

**POLITICAL SCIENCE**

107. International Law. (2) Professor ELLIOTT.  
 S110B. The Government of Cities. (2) Professor DAWSON.  
 111. Six Problems of Self-Government. (2) Professor DAWSON.

---

\* Not to be given in 1917.

**PUBLIC HEALTH**

81. Elementary Bacteriology. (4) Miss BEADLEY and Miss STEVENS.  
 3. Hospital Administration. (1) Dr. DORR.  
 85. Emergencies and Home Care of the Sick. (1) Dr. GOMPERTZ.  
 87. First Aid. (1) Dr. MCVEY.  
 9. Methods of Teaching in Schools of Nursing. (1) Miss POPE  
 10. Essentials of Public Health. (2)  
 Assistant Professor FORCE and Miss STEVENS.  
 12. Principles and Practice of Public Health Visiting. (2) Miss EVANS.  
 Dietetics for Public Health Visitors. (See Household Science 2.)  
 201. Research. (To be arranged.)  
 Assistant Professor FORCE and Miss STEVENS.

**PUBLIC SPEAKING**

1. Debate. (2) Mr. HUNT.  
 2. Public Speaking. (2) Mr. HUNT.  
 S3A. The Cultivation of the Speaking Voice. (2) Miss SUTHERLAND.  
 S4A. Expression and Interpretation. (2) Miss SUTHERLAND.  
 5. Acting as an Art and as a Method of Interpretation. (2)  
 Assistant Professor VON NEUMAYER.  
 6. The Staging and Presentation of School Plays. (2)  
 Assistant Professor VON NEUMAYER.  
 7. Acting and Staging School Plays. (2)  
 Assistant Professor VON NEUMAYER.

**ROMANIC LANGUAGES**

**French**

- (a) Elements of French. (2) Mr. SOLOMON and Miss VAN GASTEL.  
 (b) Advanced Elementary French. (2) Professor CHINARD.  
 101. Advanced Composition. (2) Mr. SOLOMON.  
 S106. Course for Teachers. (2) Professor DAVID.  
 109. The Modern French Story. (1) Professor CHINARD.  
 206. Certain Aspects of French Literature in the Eighteenth and  
 Nineteenth Centuries. (1) Professor DAVID.

**Spanish**

- A. Elements of Spanish. (Double Course.) (4)  
 Professors SCHULZ, HALL, MARINONI, and Miss TAYS.  
 B. Advanced Elementary Spanish. (2) Professors SCHULZ and MARINONI.  
 101. Composition and Translation. (2) Professor HALL.  
 103. Rapid Reading and Pronunciation. (1) Professor JAÉN.  
 106. Advanced Composition. (2) Professor JAÉN.  
 206. Spain of Today. (1) Professor JAÉN.

**Italian**

- A. Elementary Italian. (4) Mr. GOGGIO.  
 B. Advanced Elementary Italian. (2) Mr. GOGGIO.

**Portuguese**

- A. Elements of Portuguese. (2) Mr. LAWRENCE.

**SLAVIC LANGUAGES**

- S20. The Social Background of the Russian Novel. (2) Mr. KAUN.

**ZOOLOGY****(a) The Berkeley Department**

- A1. First Course in Biology. (3) Professor GALLOWAY and Mr. BOECK.  
 A2. Elements of Biology. (3) Professor GALLOWAY.  
 S108. Embryology. (4) Mr. TAYLOR.  
 S119. Special Problems in Zoology. (Not to exceed 6.)  
     Professor CORT and Mr. BARROWS.  
 130. The Biology of Sex. (1) Professor GALLOWAY.  
 S223A. Teachers' Course. (1) Professor GALLOWAY.  
 S223B. Biology for Teachers in Public Schools. (1) Professor GALLOWAY.  
 S224. Research in Protozoology. (To be arranged.) Professor KOFOID.  
 S230. Research in Zoology, during the intersession period. (Not to  
     exceed 6.) Professor CORT and Mr. BARROWS.

**(b) The Scripps Institution for Biological Research, at La Jolla**

- A2. Elements of Biology. (To be arranged.) Professor GALLOWAY.  
 100. Local Marine Zoology. (To be arranged.)  
     Mr. CRANDALL and Mr. BARNHART.  
 101. Physical Oceanography, including some Related Phenomena of  
     Meteorology. (2) Dr. MCEWEN.  
 102. Unique Principles and Problems of Marine Biology. (2)  
     Mr. MICHAEL.  
     Dr. SUMNER.  
 105. Heredity, Environment, and Adaptation. (1)  
 200. The Relation of Biology to the Sciences of Man. (1)  
     Professor RITTER.  
 S224. Research in Protozoology. (To be arranged.) Professor KOFOID.

**REGISTER—PART VI**

**CALIFORNIA SCHOOL OF FINE ARTS**

**NOVEMBER, 1917**



# CALIFORNIA SCHOOL OF FINE ARTS

---

## BOARD OF DIRECTORS

JOHN I. WALTER, President.

CHARLES TEMPLETON CROCKER, First Vice-President.

LEE F. RANDOLPH, Second Vice-President.

GERTRUDE PARTINGTON ALBRIGHT, Secretary.

WALTER S. MARTIN, Treasurer.

WILLIAM H. METSON.

RICHARD M. TOBIN.

J. J. MORA.

BERNARD R. MAYBECK.

BRUCE NELSON.

## FACULTY

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., President of the University.

LEE F. RANDOLPH, Director, and Professor of Painting, Drawing and Anatomy.

LEO LENTELLI, Dean of the Faculty, and Professor of Sculpture.

HENRY V. POOR, Professor of Painting and Drawing.

E. SPENCER MACKY, Professor of Painting and Drawing.

CONSTANCE L. MACKY, Professor of Painting and Drawing.

GERTRUDE PARTINGTON ALBRIGHT, Associate Professor of Painting and Drawing.

ALICE B. CHITTENDEN, Associate Professor of Painting and Drawing.

MAYNARD DIXON, Instructor in Illustration.

HERMANN ROSSE, Instructor in Interior Decoration and Design.

EMIL GREBS, Instructor in Commercial Art.

KATHERIN GILLESPIE, Instructor in Decorative Design, Mechanical Drawing and Arts and Crafts.

KATHERINE M. BALL, Instructor in Normal Art.

AGATHA VAN ERP, Instructor in Arts and Crafts.

The property known as the California School of Fine Arts is situated at the corner of California and Mason streets, San Francisco. Originally certain buildings occupied this half block which extends from California street to Pine street, the whole having been given by Mr. Edward F. Searles to the Regents of the University of California in February, 1893, for the purposes of instruction in and illustration of the fine arts, under the memorial title of the Mark Hopkins Institute of Art. At the same time the San Francisco Art Association became affiliated with the University of California pursuant to sections 1391 and 1396 of the Political Code of

California, and under the terms of a trust agreement between Mr. Searles, the Regents of the University, and the Art Association, the Art Association entered upon the occupancy and use of the property for the purposes named. In 1906 the memorial buildings of the Mark Hopkins Institute were destroyed in the general fire of that year, and the land reverted to Mr. Searles, who in January, 1907, redeeded it to the Board of Regents for the purpose of an institute of art under the management of the San Francisco Art Association and with the title of the San Francisco Institute of Art. A building of a temporary nature, but well adapted to its uses, was erected upon the lot, and in this the paintings and other works of art belonging to the Art Association are exhibited and instruction in the fine arts is conducted. In addition to the permanent collection of paintings and sculpture contained in the Institute special exhibitions are held at intervals during the year. The galleries of the Institute are open to the public every day except Sunday. There is no charge for admission.

The California School of Fine Arts, formerly the California School of Design, founded in 1874 by the Art Association and conducted as a part of the Mark Hopkins Institute, is being maintained and extended in connection with the San Francisco Institute of Art. Its course embraces tuition in drawing, painting, modeling, and decorative design in all their branches. It holds an exhibition of the work of the pupils at the end of the school year.

A normal course is provided for those students who wish to become teachers of art. It includes the regular course together with certain special studies elsewhere enumerated.

#### CERTIFICATES

The University Certificate of Proficiency is given to students who pass the required examinations in painting, drawing, modeling, composition, perspective, and anatomy.

The Normal Certificate is granted to students who successfully pursue the prescribed studies and pass the final examinations. The course embraces painting, drawing, modeling, composition, perspective, anatomy, decorative art, applied design, and instruction in teaching.

Examinations are held at the end of the school year and only regular students who have attended the school at least one year are eligible.

#### PRIVILEGES

The Art Gallery of the Institute is open to the pupils of the school during the term.

The Library and Reading Room, containing the current magazines and art periodicals, are also at the service of the pupils.



#### PRIZES AND SCHOLARSHIPS

Prize competitions are held from time to time during the year.

The Art Association awards six annual scholarships to the most deserving pupils of the school.

The Art Association awards three annual scholarships to California high school students for best work submitted in annual competition.

---

#### COURSES OF STUDY

The following are the courses of study, no preliminary qualifications being required for entrance to the school.

##### REGULAR COURSE

###### PREPARATORY

Drawing and Modeling—Drawing from casts and from still life; sketching from the costumed model; modeling from casts.

###### ADVANCED

Perspective—A course of lectures on perspective, with instruction in its practical application.

Anatomy—A course of lectures demonstrated by models, charts, etc., with textbooks.

Composition—A course given in connection with all life classes.

Portrait—For drawing, painting, and modeling from the head and the figure in costume.

Life (separate classes for men and women)—For drawing, painting, and modeling from the figure.

##### SPECIAL COURSES

Decorative Design—A course in decorative art and its practical application to industrial problems.

Illustration—For books, magazines, etc., with special regard for composition and for literary features.

Normal Course—For training students who wish to become teachers of art in public or private schools.

Interior Decoration—For students who desire to become professional interior decorators.

Handicrafts—Courses in tooled leather, metal, and concrete pottery.

Students are required to take the work in the regular course in connection with these special courses.

The school authorities reserve the right to omit any course or branch of study when the attendance does not in their opinion warrant its continuance.

## *California School of Fine Arts*

### NIGHT SCHOOL

Hours 7 to 9:30 P.M.

Recognizing the increasing demand of this great and growing community for enlarged educational opportunities in art for those who cannot avail themselves of the day courses, it has been decided by the Director to greatly enlarge the scope of the night school, thereby keeping in line with the most progressive art schools of the large cities of America.

Classes in drawing, painting, sculpture, interior decoration, and commercial art, duplicating many of the day classes, have been established.

### SATURDAY CLASSES

Drawing—From casts, costumed model, and still life.

### TUITION FEES

The following are the fees charged for tuition, payable in advance.

#### DAY CLASSES

Monday, Tuesday, Wednesday, Thursday, Friday

	Month	Term
Ten half days per week .....	\$12.00	\$45.00
Five half days per week .....	9.00	32.00
Two half days per week (life classes excepted).....	5.00	20.00

#### NIGHT CLASSES

Monday, Tuesday, Wednesday, Thursday, Friday

	Month	Term
Five nights per week .....	\$7.00	\$29.00
Four nights per week .....	6.00	25.00
Three nights per week .....	5.00	18.00

#### SPECIAL CLASSES

Tuesday Night, Sketch (no instruction).....	\$1.00 per month
Friday Night only, Advanced Commercial Art.....	3.00 per month

#### SATURDAY CLASSES

	Month	Term (of 4 months)
All day (9 A.M. till 4 P.M.).....	\$4.00	\$12.00

Term rates are granted only when such rate is paid within the first month of enrollment.

SCHEDULE OF CLASSES

9 A.M. TO 12 M. 1 P.M. TO 4 P.M.

MONDAY

<i>Classes</i>	<i>Instructors Attending</i>
<b>Morning—</b>	
Life Class .....	Lee F. Randolph
Life Class .....	Henry V. Poor
Still Life Painting .....	
<b>Afternoon—</b>	
Portrait .....	E. Spencer Macky and Constance L. Macky
Sculpture .....	Leo Lentelli
Antique Drawing .....	E. Spencer Macky and Constance L. Macky
Still Life Painting .....	Henry V. Poor

TUESDAY

<b>Morning—</b>	
Life Class .....	
Life Class .....	
Still Life Painting .....	
<b>Afternoon—</b>	
Portrait .....	
Sculpture .....	
Sketch (costume figure) .....	Gertrude Albright
Interior Decoration .....	Hermann Rosse
Antique Drawing .....	
Still Life Painting .....	

WEDNESDAY

<b>Morning—</b>	
Life Class .....	
Life Class .....	
Perspective .....	Katherin Gillespie
Still Life Painting .....	
<b>Afternoon—</b>	
Portrait .....	E. Spencer Macky and Constance L. Macky
Decorative Design .....	Katherin Gillespie
Still Life Painting .....	
Sculpture .....	
Antique Drawing .....	E. Spencer Macky and Constance L. Macky

THURSDAY

<b>Morning—</b>	
Life Class .....	Lee F. Randolph
Life Class .....	Henry V. Poor
Still Life Painting .....	
<b>Afternoon—</b>	
Portrait .....	
Anatomy .....	Lee F. Randolph
Sculpture .....	Leo Lentelli
Costume Design .....	Hermann Rosse
Illustration .....	Maynard Dixon
Still Life Painting .....	
Antique Drawing .....	

*California School of Fine Arts**Classes**Instructors Attending*

## FRIDAY

## Morning—

Life Class .....	
Life Class .....	
Decorative Design .....	Katherin Gillespie
Still Life Painting .....	

## Afternoon—

Sketch (costume figure) .....	Gertrude Albright
Sculpture .....	
Normal Class .....	Katherine Ball
Commercial Art .....	Emil Grebs
Still Life Painting .....	Henry V. Poor
Antique Drawing .....	

## NIGHT SCHOOL

7 TO 9:30 P.M.

## Monday—

Drawing and Painting from Life ....	E. Spencer Macky
Sculpture .....	Leo Lentelli

## Tuesday—

Interior Decoration .....	Hermann Rosse
Sketch Class .....	No Instructor

## Wednesday—

Drawing and Painting from Life ....	E. Spencer Macky
Sculpture .....	

## Thursday—

Interior Decoration .....	Hermann Rosse
---------------------------	---------------

## Friday—

Drawing and Painting from Life ....	E. Spencer Macky
Sculpture .....	
Commercial Art .....	Emil Grebs

For further information apply at the office of the California School of Fine Arts, corner of California and Mason streets, San Francisco, California. Illustrated catalogue mailed on request.

**REGISTER—PART VII**

**HASTINGS COLLEGE OF THE LAW**

**NOVEMBER, 1917**



# HASTINGS COLLEGE OF THE LAW

---

## DIRECTORS

HON. FRANK M. ANGELLOTTI, Chief Justice of the Supreme Court, *ex officio*  
President of the Board.

WILLIAM B. BOSLEY, Esq.

PERRY EVANS, Esq.

HON. W. C. VAN FLEET.

HOYT D. HASTINGS, Esq.

RALPH C. HARRISON, Esq.

WARREN OLNEY, Jr., Esq.

CHARLES W. SLACK, Esq.

CHARLES A. SHURTLEFF, Esq.

## FACULTY

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., President of the  
University, President.

EDWARD R. TAYLOR, M.D., Professor of Law, Dean.

ROBERT W. HARRISON, A.B., LL.B., Professor of Law.

JAMES A. BALLENTINE, A.B., Assistant Professor of Law.

RICHARD C. HARRISON, A.B., LL.B., Assistant Professor of Law.

GOLDEN W. BELL, B.L., LL.B., Assistant Professor of Law.

GEORGE L. BELL, B.L., LL.B., Assistant Professor of Law.

THOMAS A. THACHER, A.B., LL.B., Assistant Professor of Law.

ALAN C. VAN FLEET, B.L., LL.B., Assistant Professor of Law.

GEORGE J. MARTIN, Registrar.

## CALENDAR AND DIRECTORY

The college year begins on the second Monday in August and ends with the college year at Berkeley, and all applications for admission must be made to the Registrar at or before that time. All registrations are to be made during the week beginning with the second Monday of August. There is a recess of two and one-half weeks in December.

The classes meet daily at 8, 9, and 10 a.m.

The address of the Dean is City Hall, San Francisco, where all the work of the college is done.

The address of the Registrar is 928 Pacific Building, San Francisco.

## ADMISSION

Every applicant for admission to the college must be shown to be of good moral character and must be either a graduate of the University of California or hold an academic degree from some other approved university or college, or be a graduate of either a public or private school

which is accredited by the University of California for admission therein, and be recommended by the principal thereof with a certificate stating that he has completed altogether four years of high school work or its equivalent; and in addition thereto he must have performed the equivalent of the work required for the Junior Certificate in an academic college of the University of California, being the above named high school work and two years of college work as is at present prescribed by the University of California.

A detailed statement of the requirements for the Junior Certificate is contained in the Circular of Information concerning the Academic Departments, and may be obtained upon application to the Recorder of the Faculties, University of California, Berkeley, California, or to the Dean.

Applicants for admission to the Junior Class must be at least eighteen years of age; to the Middle Class, at least nineteen years of age; to the Senior Class, at least twenty years of age.

Applicants for admission to the Middle or Senior classes will be given credit for work done in other law schools, but no credits will be given for such work unless the work has been done at a law school which is a member of the Association of American Law Schools, and unless the work is duly authenticated by the proper authorities of said school.

Members of the bar may, in the discretion of the Dean, be admitted as special students.

The examinations for admission are held at the times and places announced for holding the entrance examinations to the academic colleges of the University at Berkeley. Applicants will not be examined at any other time unless for reasons of the most exceptional urgency. Information concerning the examinations can be obtained from the Recorder of the Faculties of the University of California, Berkeley, California.

No applicant for admission to either the Middle Class or Senior Class will be examined for admission at any other time than at the beginning of the college year.

Further information can be obtained from the Dean or the Registrar.

## COURSES OF INSTRUCTION

The object of the college is to give such instruction in the principles of our jurisprudence as will furnish preparation for the practice of the profession of law in this country. Particular attention is directed to the history of the law and to the codes and the general statutes of this state. The courses of instruction extend over a period of three years, and are as follows:



**JUNIOR YEAR**

**Real Property.**

**Professor TAYLOR.**

In this course formal lectures are given, the students being recommended to read the following: Digby's History of the Law of Real Property; the Second Book of Blackstone's Commentaries; the Sixth Part of Kent's Commentaries; Williams on Real Property; Challis on Real Property; Jenks' Modern Land Law; Spitz on Conditional and Future Interests in Property; Markby's Elements of Law; Holland's Elements of Jurisprudence; Kirchwey's Readings in the Law of Real Property.

Two hours a week throughout the year, and three hours as occasion demands.

**Contracts.**

**Assistant Professor G. W. BELL.**

A Selection of Cases on Contracts, edited and annotated by Williston. Three hours a week throughout the year.

**Torts.**

**Assistant Professor BALLENTINE.**

Ames' and Smith's Cases on Torts, second edition.

Two hours a week throughout the year.

**Pleading.**

**Assistant Professor R. C. HARRISON.**

Formal lectures, cases and other readings, to be assigned from time to time.

References: T. A. Street, Foundations of Legal Liability, vol. III; R. Ross Perry, Common Law Pleadings; Book III of Blackstone's Commentaries.

Two hours a week throughout the year.

**Criminal Law.**

**Assistant Professor BALLENTINE.**

Beale's Cases on Criminal Law, second edition.

Two hours a week throughout the year.

**MIDDLE YEAR**

**Agency.**

**Professor TAYLOR.**

Wambaugh's Cases on Agency.

References: Meachem on Agency; Huffcut on Agency, second edition.

Two hours a week throughout the year.

**Corporations.**

**Professor TAYLOR.**

Lectures and assigned cases.

Warren's Cases on Private Corporations, second edition.

References: Clark and Marshall on Corporations; Dillon on Municipal Corporations.

Two hours a week throughout the year.

**Partnership.**

Professor TAYLOR.

There is no separate course on Partnership, but as the questions connected with that subject are allied to those arising in Agency and in Corporations, Partnership is studied in connection with those subjects. Bates on Partnership is used as a reference book.

**Public Service Companies.**

Assistant Professor G. L. BELL.

Selected cases from Cases on Public Service Companies, Beale and Wyman, and McClain's Cases on Carriers.

Two hours a week during a portion of the year.

**Sales of Personal Property.**

Professor R. W. HARRISON.

Williston's Cases on Sales.

Two hours a week throughout the year.

**Negotiable Instruments.**

Professor R. W. HARRISON.

Smith and Moore's Cases on Bills and Notes.

Two hours a week throughout the year.

**Wills and Administration.**

Professor R. W. HARRISON.

Costigan's Cases on Wills; California Code of Civil Procedure, title "Proceedings in the Probate Court," and assigned cases.

Two hours a week throughout the year.

**SENIOR YEAR****Equity.**

Professor TAYLOR.

Scott's Cases on Equity Jurisprudence.

References: Story's Equity Jurisprudence; Pomeroy's Equity Jurisprudence.

Two hours a week throughout the year.

**Real Property.**

Professor TAYLOR.

Finch's Cases, second edition.

Two hours a week throughout the year.

**Trusts.**

Assistant Professor G. L. BELL.

Ames's Cases on Trusts.

Two hours a week throughout the year.

**Evidence.**

Assistant Professor VAN FLEET.

Thayer's Cases on Evidence.

Two hours a week throughout the year.

**Constitutional Law.**

Assistant Professor THACHER.

Wambaugh's Cases on Constitutional Law.

References: Pomeroy's Constitutional Law; Cooley's Constitutional Limitations; Cooley's Principles of Constitutional Law.

Two hours a week throughout the year.

Pleading and Practice. Assistant Professor R. C. HARRISON.  
California Code of Civil Procedure and California Cases as assigned  
by the instructor.  
Three hours a week throughout the year.

#### MOOT COURT

A Moot Court is established as a regular mode of instruction. Attendance is made compulsory upon the members of the Senior Class. At the beginning of the college year a calendar of cases to be argued, with counsel assigned, together with the judge who is to sit in the case, is prepared, and the proceedings are governed according to rules established by the Dean. A member of the faculty is present at each session of the court and makes such criticism as is necessary after the student judge has delivered his written opinion.

#### LIBRARY

In addition to the college library, students are permitted to use the Bar Association Library during office hours and the San Francisco Law Library on the same terms as members of the bar.

#### EXPENSES

Tuition is free, but a fee of \$20 per year is charged to cover incidental expenses.

#### GRADUATION

Students who complete the prescribed courses receive from the University the degree of Bachelor of Laws.



**REGISTER—PART VIII**

**UNIVERSITY OF CALIFORNIA  
MEDICAL SCHOOL  
BERKELEY-SAN FRANCISCO**

**ANNOUNCEMENT FOR 1917-18  
JUNE, 1917**



**UNIVERSITY OF CALIFORNIA**

**MEDICAL SCHOOL**

**ANNOUNCEMENT FOR 1917-18**

**UNIVERSITY OF CALIFORNIA MEDICAL SCHOOL  
PARNASSUS AND SECOND AVENUES  
SAN FRANCISCO**





# CONTENTS

	PAGE
Calendar .....	5
Organization .....	7
Regents of the University .....	9
Advisory Board—George Williams Hooper Foundation for Medical Research .....	10
Faculty and Teaching Staff .....	11
Administrative Officers of the Medical School .....	18
Standing Committees of the Medical School .....	18
Medical Staff—University Hospital and Out-Patient Department .....	19
Medical Staff—San Francisco Hospital .....	20
History and Development .....	24
Requirements for Admission and Graduation .....	26
Requirements for Admission .....	29
Admission to Advanced Standing .....	33
Instruction for Graduates in Medicine .....	33
Class Standing and Examination .....	33
Leaves of Absence .....	34
Requirements for Graduation .....	34
Fifth Year .....	34
Curriculum in Public Health .....	35
General Information .....	37
Registration .....	39
Fees .....	39
Microscopes and Blood Counting Apparatus .....	39
Medical Supervision over Students .....	40
Libraries .....	40
Laboratories and Clinical Opportunities .....	40
The University Hospital .....	41
The San Francisco Hospital .....	42
Out-Patient Department .....	43
Social Service Department .....	43
Tuberculosis Clinics .....	44
The Cancer Ward .....	44
The Hooper Foundation for Medical Research .....	44

	PAGE
The Childrens Hospital .....	44
Electives in Homeopathy .....	45
Scholarships .....	45
Fellowships .....	46
Hospital Appointments .....	46
Loan Fund .....	47
Plan of Instruction and Announcement of Courses .....	48
General Statement .....	51
Arrangement of Studies .....	53
Departments of Instruction .....	56
Anatomy .....	56
Physiology .....	59
Biochemistry and Pharmacology .....	60
Pathology and Bacteriology .....	63
Preventive Medicine and Hygiene .....	65
Materia Medica and Practical Therapeutics .....	65
Medicine (including Clinical Pathology) .....	67
Research Medicine .....	69
Neurology and Psychiatry .....	71
Dermatology and Syphilology .....	72
Legal Medicine .....	73
Pediatrics .....	73
Surgery .....	75
Orthopedic Surgery .....	77
Laryngology, Otology, and Rhinology .....	78
Ophthalmology .....	79
Urology .....	79
Roentgenology .....	80
Obstetrics and Gynecology .....	80
Fourth Year Electives .....	82
General Statement .....	82
Electives arranged by Departments .....	82-90
Schedules of Courses .....	94-100
Degrees Conferred May, 1917 .....	101
List of Students .....	102-108
Graduates .....	111-120

## CALENDAR

1917

July 1—Undergraduate applications for admission to the Medical School, with credentials, should be filed at the Dean's office. This may be done by mail.

August 9 (Thursday)—14 (Tuesday)—Entrance examinations at Berkeley for freshman standing (pre-medical) in the College of Letters and Science. Applicants will be required to obtain permits to enter the examination room. Examination permits will be issued by the Recorder of the Faculties on or before August 8 (Wednesday). But applications for permits to be sent by mail should be made as far in advance of August 8 (Wednesday) as will enable applicants to receive their permits by that date. The office of the Recorder of the Faculties is in California Hall, Berkeley.

August 13 (Monday)—Examinations begin for applicants for advanced standing and for students previously conditioned.

August 16 (Thursday), 17 (Friday), 18 (Saturday), 9 a.m.—12m.—Registration of students of all classes at Secretary's office in the main building of the Medical School in San Francisco.

August 20 (Monday)—Class work begins. *Payment of the first installment of the tuition fee is required on or before this date.*

November 29 (Thursday)—December 1 (Saturday)—Thanksgiving recess.

December 10 (Monday)—Examinations begin.

December 17 (Monday)—Christmas vacation begins.

1918

January 7 (Monday)—Second half-year; class work begins. *Payment of the second installment of the tuition fee is required on or before this date.*

March 23 (Saturday)—Charter Day: a holiday.

April 29 (Monday)—Examinations begin.

May 15 (Wednesday)—Commencement.

May 20 (Monday)—August 10 (Saturday)—Summer vacation.

August 12 (Monday)—Examinations begin for applicants for advanced standing and for students previously conditioned.

August 15 (Thursday), 16 (Friday), 17 (Saturday), 9 a.m.—12 m.—Registration of students of all classes at Secretary's office in main building of the Medical School in San Francisco.

August 19 (Monday)—Class work begins.

November 29 (Thursday)—November 30 (Saturday)—Thanksgiving recess.

December 9 (Monday)—examinations begin.

December 16 (Monday)—January 4 (Saturday)—Christmas vacation.

1919

January 6 (Monday)—Second half-year; class work begins.



## **ORGANIZATION AND HISTORY**



# REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

## REGENTS EX OFFICIO

His Excellency WILLIAM DENNISON  
STEPHENS  
Governor of California and President of  
the Regents  
Sacramento

—, Lieutenant-Governor of California

CLEMENT CALHOUN YOUNG, B.L.  
Speaker of the Assembly  
Shattuck av and Addison st, Berkeley

EDWARD HYATT, B.S.  
State Superintendent of Public Instruction  
Sacramento

Hon. JOHN M. PERRY  
President of the State Agricultural  
Society  
10 W Weber av, Stockton

LIVINGSTON JENKS, A.B., LL.B.  
President of the Mechanics' Institute  
807 Mechanics Institute bldg, San  
Francisco

BENJ. IDW WHEELER, Ph.D., LL.D., Litt.D.  
President of the University  
217 California Hall, Berkeley

## APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the board.

ISAIAH WILLIAM HELLMAN, Esq. (1916)  
Wells Fargo-Nevada National Bank, San  
Francisco

Mrs. PHOEBE APPERSON HEARST (1930)  
Pleasanton  
Business address: 410 Hearst bldg, San  
Francisco

ARTHUR WILLIAM FOSTER, Esq. (1932)  
1210 James Flood bldg, San Francisco

GARETT WILLIAM MCENERNEY, Esq.  
(1920)

2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG, Esq. (1932)  
Main and Mission sts, San Francisco

GUY CHAFFEE EARL, A.B. (1918)  
14 Sansome st, San Francisco

JAMES WILFRED MCKINLEY, B.S. (1922)  
706 Security bldg, Los Angeles

JOHN ALEXANDER BRITTON, Esq. (1930)  
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1926)  
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)  
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)  
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)  
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B.  
(1928)

1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)  
1681 Cimarron st, Los Angeles

JAMES MILLS, Esq. (1926)  
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1920)  
Fresno

## OFFICERS OF THE REGENTS

His Excellency Wm. Dennison Stephens  
President  
Sacramento

Ralph Palmer Merritt, B.S.  
Comptroller  
220 California Hall, Berkeley

Victor Hendricks Henderson, B.L.  
Secretary and Land Agent  
104 California Hall, Berkeley

Mortimer Fleishhacker, Esq.  
Treasurer

Anglo-California Trust Company, San Francisco

Warren Olney, Jr., A.B., LL.B.  
Attorney

1107 Merchants Exchange bldg, San Francisco

## STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1916-17\*

*Agriculture:*

Regents Foster, Dickson, Jenks, Mills,  
and Perry

Regent Bowles, alternate

*Curriculum and Degrees:*

Regents Rowell, Moffitt, and Bowles.

*Finance:*

Regents Earl, Foster, Britton, Moffitt,  
Taussig, and, as Member Emeritus,  
Regent Hellman

*Grounds and Buildings:*

Regents Britton, Mrs. Hearst, Jenks,  
Bowles, and C. S. Wheeler

*Lick Observatory:*

Regents Ramm, McEnerney, Young, and  
Crocker

*Medical Instruction:*

Regents Crocker, Moffitt, Ramm, Dickson,  
and Taussig

*Scripps Institution for Biological Research:*

Regents Dickson, McKinley, and Hyatt.

*University Hospital:*

Regents Crocker, Taussig, Britton, Earl,  
and Moffitt

*Wilmersding School:*

Regents Taussig, Earl, and Moffitt

*Executive Committee:*

This committee consists of the chairmen  
of all standing committees

---

THE GEORGE WILLIAMS HOOPER FOUNDATION FOR  
MEDICAL RESEARCH

## ADVISORY BOARD

BENJAMIN IDE WHEELER, President of the University.

E. D. CONNOLLY, San Francisco.

A. W. FOSTER, Regent of the University.

HERBERT C. MOFFITT, Dean of the Medical School.

HENRY S. PRITCHETT, President of the Carnegie Foundation.

WILLIAM H. WELCH, President of Pathology, Johns Hopkins Medical School.

GEORGE H. WHIPPLE, Director of the Research Laboratory.

---

\* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.



## FACULTY AND TEACHING STAFF\*

---

### PRESIDENT OF THE UNIVERSITY

BENJAMIN IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D.,  
California Hall, Berkeley.

### EMERITUS PROFESSORS

ROBERT A. MCLEAN, M.D., *Emeritus Professor of Surgery*,  
Cloyne Court, Berkeley, California.  
THOMAS W. HUNTINGTON, A.B., M.D., *Emeritus Professor of Clinical Sur-*  
*gery*, 516 Sutter street, San Francisco.  
WILLIAM B. LEWITT, M.D., *Emeritus Professor of Pediatrics*,  
210 Post street, San Francisco.

### PROFESSORS

HERBERT C. MOFFITT, B.S., M.D., *Professor of Medicine*,  
240 Stockton street, San Francisco.  
FREDERICK P. GAY, A.B., M.D., *Professor of Pathology*,  
Department of Pathology, University of California, Berkeley.  
WALLACE I. TERRY, B.S., M.D., *Professor of Surgery*,  
240 Stockton street, San Francisco  
WILLIAM PALMER LUCAS, A.B., M.D., *Professor of Pediatrics*,  
University Hospital, San Francisco.  
GEORGE HOYT WHIPPLE, A.B., M.D., *Professor of Research Medicine*,  
University Hospital, San Francisco.  
HERBERT MCLEAN EVANS, A.B., M.D., *Professor of Anatomy*,  
Department of Anatomy, University of California, Berkeley.  
FRANK WORTHINGTON LYNCH, A.B., M.D., *Professor of Obstetrics and*  
*Gynecology*, University Hospital, San Francisco.  
T. BRAILSFORD ROBERTSON, Ph.D., Sc.D., *Professor of Biochemistry*,  
2619 Regent street, Berkeley.

---

\* Voting members are those above the rank of instructor.

## CLINICAL PROFESSORS

- HOWARD MORROW, M.D., *Clinical Professor of Dermatology*,  
135 Stockton street, San Francisco.
- WILLIAM BOERICKE, M.D., *Clinical Professor of Homeopathic Materia Medica*,  
391 Sutter street, San Francisco.
- WILBUE A. SAWYER, A.B., M.D., *Clinical Professor of Preventive Medicine and Hygiene*,  
California State Board of Health, Sacramento.
- SUMNER ANSON HILL, M.D., *Clinical Professor of Applied Homeopathic Therapeutics*,  
306 Arguello boulevard, San Francisco.

## ASSOCIATE PROFESSORS

- SAMUEL STEEN MAXWELL, Ph.D., *Associate Professor of Physiology*,  
Department of Physiology, University of California, Berkeley.
- ROBERT ORTON MOODY, B.S., M.D., *Associate Professor of Anatomy*,  
Department of Anatomy, University of California, Berkeley.
- ERNEST L. WALKER, B.A.S., S.B., S.D., *Associate Professor of Tropical Medicine*,  
University Hospital, San Francisco.
- KARL FREDERICK MEYER, A.B., D.V.M., *Associate Professor of Tropical Medicine*,  
University Hospital, San Francisco.
- GLANVILLE Y. RUSK, A.B., M.D., *Associate Professor of Pathology*,  
Department of Pathology, University of California, Berkeley.
- HARDOLPH WASTENEYS, Ph.D., *Associate Professor of Pharmacology*,  
Department of Biochemistry, University of California, Berkeley.

## ASSISTANT PROFESSORS

- JEAN V. COOKE, A.B., M.D., *Assistant Professor of Pathology*,  
University Hospital, San Francisco.
- THEODORE C. BURNETT, M.D., *Assistant Professor of Physiology*,  
Department of Physiology, University of California, Berkeley.
- IVAN C. HALL, M.S., *Assistant Professor of Bacteriology*,  
Department of Pathology, University of California, Berkeley.
- GEORGE W. CORNER, A.B., M.D., *Assistant Professor of Anatomy*,  
Department of Anatomy, University of California, Berkeley.
- CHARLES W. HOOPER, A.B., M.D., *Assistant Professor of Research Medicine*,  
University Hospital, San Francisco.
- ALICE ROHDÉ, B.S., M.D., *Assistant Professor of Research Medicine*,  
University Hospital, San Francisco.

# ASSISTANT CLINICAL PROFESSORS

- GEORGE HERBERT EVANS, M.D., *Assistant Clinical Professor of Medicine*,  
233 Post street, San Francisco.
- HAROLD BRUNN, M.D., *Assistant Clinical Professor of Surgery*,  
135 Stockton street, San Francisco.
- HERBERT W. ALLEN, B.S., M.D., *Assistant Clinical Professor of Medicine*,  
240 Stockton street, San Francisco.
- ALBERT J. HOUSTON, B.L., M.D., *Assistant Clinical Professor of Laryngology*,  
*Otology and Rhinology*, 350 Post street, San Francisco.
- GEORGE E. EBRIGHT, M.D., *Assistant Clinical Professor of Medicine*,  
209 Post street, San Francisco.
- WALTER SCOTT FRANKLIN, M.D., *Assistant Clinical Professor of Ophthalmology*,  
135 Stockton street, San Francisco.
- EUGENE S. KILGORE, B.S., M.D., *Assistant Clinical Professor of Medicine*,  
University Hospital, San Francisco.
- SAXTON T. POPE, M.D., *Assistant Clinical Professor of Surgery*,  
135 Stockton street, San Francisco.
- R. KNIGHT SMITH, M.D., *Assistant Clinical Professor of Obstetrics*,  
391 Sutter street, San Francisco.
- LIONEL S. SCHMITT, B.S., M.D., *Assistant Clinical Professor of Syphilology*,  
135 Stockton street, San Francisco.
- MILTON B. LENNON, A.B., M.D., *Assistant Clinical Professor of Neurology*,  
135 Stockton street, San Francisco.
- JAMES L. WHITNEY, A.B., M.D., *Assistant Clinical Professor of Medicine*,  
University Hospital, San Francisco.
- HOWARD E. RUGGLES, A.B., M.D., *Assistant Clinical Professor of Roentgenology*,  
233 Post street, San Francisco.

# LECTURERS

- ARNOLD A. D'ANCONA, A.B., M.D., *Lecturer in Forensic Medicine*,  
862 Shrader street, San Francisco.
- ROBERT L. RICHARDS, A.B., M.D., *Lecturer in Psychiatry*,  
Talmage, California.
- V. H. PODSTAT, M.D., *Lecturer in Psychiatry*,  
Livermore, California.
- JOHN N. FORCE, Gr.P.H., M.S., M.D., *Lecturer in Preventive Medicine and Hygiene*,  
Department of Hygiene, University of California, Berkeley.
- WILLIAM C. HASSLER, Ph.G., M.D., *Lecturer in Preventive Medicine and Hygiene*,  
1085 Mission street, San Francisco.
- CHESTER G. GILLESPIE, C.E., *Lecturer in Preventive Medicine and Hygiene*,  
Bureau of Sanitary Engineering, California State Board of Health,  
Berkeley.

## INSTRUCTORS

- RACHEL L. ASH, B.S., M.D., *Instructor in Pediatrics*,  
240 Stockton street, San Francisco.
- WILLIAM G. MOORE, M.D., *Instructor in Obstetrics and Gynecology*,  
177 Post street, San Francisco.
- WILLIAM P. WILLARD, M.D., *Instructor in Urology*,  
177 Post street, San Francisco.
- LOUIS I. BREITSTEIN, B.S., M.D., *Instructor in Obstetrics and Gynecology*,  
516 Sutter street, San Francisco.
- WILLIAM F. BLAKE, A.B., M.D., *Instructor in Ophthalmology*,  
516 Sutter street, San Francisco.
- PHILIP E. SMITH, Ph.D., *Instructor in Anatomy*,  
Department of Anatomy, University of California, Berkeley.
- <sup>2</sup>CHARLES B. BENNETT, Ph.D., *Instructor in Biochemistry*,  
Department of Physiology, University of California, Berkeley.
- ALBERT SCHNEIDER, M.D., Ph.D., *Instructor in Materia Medica*,  
California College of Pharmacy, San Francisco.
- ROSALIND WULZEN, Ph.D., *Instructor in Physiology*,  
Department of Physiology, University of California, Berkeley.
- LEWIS SAYRE MACE, A.B., M.D., *Instructor in Medicine*,  
240 Stockton street, San Francisco.
- ADELBERT W. LEE, M.D., *Instructor in Dermatology*,  
University Hospital, San Francisco.
- LEROY H. BRIGGS, M.D., *Instructor in Medicine*,  
240 Stockton street, San Francisco.
- HOWARD C. NAFFZIGER, M.S., M.D., *Instructor in Surgery*,  
291 Geary street, San Francisco.
- WALTER I. BALDWIN, B.S., M.D., *Instructor in Orthopedic Surgery*,  
135 Stockton street, San Francisco.
- HERBERT S. THOMSON, B.S., M.D., *Instructor in Surgery*,  
2539 College avenue, Berkeley.
- OLGA BRIDGMAN, M.D., Ph.D., *Instructor in Pediatrics*,  
University Hospital, San Francisco.
- SAMUEL H. HURWITZ, A.M., M.D., *Instructor in Research Medicine*,  
University Hospital, San Francisco.
- FRANK HINMAN, A.B., M.D., *Instructor in Urology*,  
516 Sutter street, San Francisco.
- RICHARD WARREN HARVEY, M.S., M.D., *Instructor in Neurology*,  
University Hospital, San Francisco.

---

<sup>2</sup> In residence, second half-year only, 1917-18.

- JAMES C. NEEL, Ph.B., M.D., *Instructor in Obstetrics and Gynecology*,  
University Hospital, San Francisco.
- LOUIS P. HOWE, M.D., *Instructor in Surgery*,  
516 Sutter street, San Francisco.
- JULE B. FRANKENHEIMER, B.S., M.D., *Instructor in Medicine*,  
240 Stockton street, San Francisco.
- VIVIA B. APPLETON, A.B., M.D., *Instructor in Pediatrics*,  
191 Frederick street, San Francisco.
- KATHERINE J. SCOTT, A.B., M.D., *Instructor in Anatomy*,  
Department of Anatomy, University of California, Berkeley.
- EDWARD S. SUNDSTROEM, M.D., *Instructor in Biochemistry*,  
Department of Biochemistry, University of California, Berkeley.
- EDWARD F. GLASER, M.D., *Instructor in Ophthalmology*,  
391 Sutter street, San Francisco.
- JOHN V. LEONARD, M.D., *Instructor in Urology*,  
177 Post street, San Francisco.
- ALANSON WEEKS, M.D., *Instructor in Surgery*,  
350 Post street, San Francisco.
- FAYETTE W. BIRTCH, A.B., M.D., *Instructor in Surgery*,  
St. Luke's Hospital, San Francisco.
- LILLIAN M. MOORE, M.S., *Instructor in Physiology*,  
Department of Physiology, University of California, Berkeley.
- ELBRIDGE J. BEST, B.S., M.D., *Instructor in Medicine*,  
209 Post street, San Francisco.
- HANS LISSER, A.B., M.D., *Instructor in Medicine*,  
516 Sutter street, San Francisco.
- ERNEST H. FALCONER, C.M., M.D., *Instructor in Medicine*,  
516 Sutter street, San Francisco.
- LOVELL LANGSTROTH, A.B., M.D., *Instructor in Medicine*,  
240 Stockton street, San Francisco.
- FREDERICK C. LEWITT, B.S., M.D., *Instructor in Laryngology, Otology and Rhinology*,  
291 Geary street, San Francisco.
- ABEL W. JOHNSON, A.B., M.D., *Instructor in Laryngology, Otology and Rhinology*,  
350 Post street, San Francisco.
- LIONEL P. PLAYER, M.D., *Instructor in Urology*,  
516 Sutter street, San Francisco.
- WALTER C. ALVAREZ, M.D., *Instructor in Research Medicine*,  
126 Stockton street, San Francisco.
- E. CHARLES FLEISCHNER, M.D., *Instructor in Pediatrics*,  
350 Post street, San Francisco.
- WILLIAM H. BARNES, A.B., *Instructor in Bacteriology*,  
Department of Pathology, University of California, Berkeley.

EDWIN I. BARTLETT, A.B., M.D., *Instructor in Surgery*,  
Thomson building, Oakland.

## ASSISTANTS

- DUDLEY TAIT, B.S., M.D., *Assistant in Surgery*,  
135 Stockton street, San Francisco.
- RENE BINE, M.D., *Assistant in Medicine*, 350 Post street, San Francisco.
- MARY E. BOTSFORD, M.D., *Assistant in Surgery*,  
807 Francisco street, San Francisco.
- HOWARD H. MARKEL, A.B., M.D., *Assistant in Orthopedic Surgery*,  
135 Stockton street, San Francisco.
- LOUISE MORROW, A.B., M.D., *Assistant in Pediatrics*,  
University Hospital, San Francisco.
- ETHEL M. WATTERS, A.B., M.D., *Assistant in Pediatrics*,  
240 Stockton street, San Francisco.
- EVA C. REID, M.D., *Assistant in Psychiatry*,  
University Hospital, San Francisco.
- DOLORES E. BRADLEY, B.S., *Assistant in Pathology and Bacteriology*,  
Department of Pathology, University of California, Berkeley.
- CARL L. HOAG, M.S., M.D., *Assistant in Surgery*,  
126 Stockton street, San Francisco.
- JOHN M. REHFISCH, A.B., M.D., *Assistant in Medicine*,  
University Hospital, San Francisco.
- EDNA L. BARNEY, M.S., M.D., *Assistant in Surgery*,  
University Hospital, San Francisco.
- BERTRAM STONE, M.D., *Assistant in Dermatology*,  
4112 Twenty-fourth street, San Francisco.
- HANS B. CHRISTIANSEN, M.D., *Assistant in Laryngology, Otology and Rhinology*,  
135 Stockton street, San Francisco.
- JEROME B. THOMAS, A.B., M.D., *Assistant in Laryngology, Otology and Rhinology*,  
Frazer Building, Palo Alto.
- ALICE F. MAXWELL, B.S., M.D., *Assistant in Obstetrics and Gynecology*,  
1241 Third avenue, San Francisco.
- JOHN H. WOOLSEY, M.S., M.D., *Assistant in Surgery*,  
University Hospital, San Francisco.
- MABEL F. GIFFORD, *Assistant in Pediatrics*,  
990 Geary street, San Francisco.
- RUTH L. STONE, M.S., *Edith Claypole Research Fellow in Pathology*,  
Department of Pathology, University of California, Berkeley.
- CARL L. A. SCHMIDT, Ph.D., *Research Assistant in Pathology*,  
Department of Pathology, University of California, Berkeley.
- ESTHER ROSENCRANTZ, A.B., M.D., *Assistant in Medicine*,  
729 Jones street, San Francisco.

- GEORGE H. MARTIN, A.B., *Assistant in Physiology*,  
Department of Physiology, University of California, Berkeley.
- JOHN A. LARSON, A.B., *Assistant in Physiology*,  
Department of Physiology, University of California, Berkeley.
- JOSEPH S. BROOKS, M.D., *Assistant in Homeopathic Materia Medica*,  
135 Stockton street, San Francisco.
- WILLIAM W. BEHLOW, A.B., M.D., *Assistant in Medicine*,  
233 Post street, San Francisco.
- LLOYD BRYAN, B.S., M.D., *Assistant in Roentgenology*,  
135 Stockton street, San Francisco.
- ALFRED E. MEYERS, A.B., M.D., *Assistant in Pediatrics*,  
350 Post street, San Francisco.
- CHARLES L. TRANTER, B.S., M.D., *Assistant in Neurology*,  
126 Stockton street, San Francisco.
- HAROLD W. WRIGHT, M.D., *Assistant in Neurology*,  
516 Sutter street, San Francisco.
- ARTHUR L. FISHER, A.B., M.D., *Assistant in Orthopedic Surgery*,  
126 Stockton street, San Francisco.
- HENRY HORN, B.S., M.D., *Assistant in Laryngology, Otology, and Rhinology*,  
209 Post street, San Francisco.
- CONSTANTINE R. BRICCA, A.B., M.D., *Assistant in Laryngology, Otology,  
and Rhinology*,  
166 Geary street, San Francisco.
- SHERMAN A. WHITE, D.D.S., *Assistant in Pediatrics*,  
1159 Masonic avenue, San Francisco.
- HUGH K. BERKLEY, M.D., *Assistant in Pediatrics*,  
University Hospital, San Francisco.
- JOHN A. MARSHALL, M.S., D.D.S., *Assistant in Pharmacology*,  
Acheson building, Berkeley.
- MARGARET SCHULZE, M.S., M.D., *Assistant in Obstetrics and Gynecology*,  
University Hospital, San Francisco.
- WILLIAM A. WOOD, M.D., *Assistant in Pediatrics*,  
Alta Vista building, Berkeley.
- ADOLPH G. SCHNACK, A.M., M.D., *Assistant in Pediatrics*,  
University Hospital, San Francisco.
- ROBERT R. NEWELL, M.D., *Assistant in Medicine*,  
University Hospital, San Francisco.
- ROBERT S. SHERMAN, M.S., M.D., *Assistant in Surgery*,  
San Francisco Hospital, San Francisco.
- <sup>1</sup>BENJAMIN H. PRATT, M.A., *Assistant in Anatomy*,  
Department of Anatomy, University of California, Berkeley.
- <sup>2</sup>ALFRED V. WEPFER, B.S., *Assistant in Anatomy*,  
Department of Anatomy, University of California, Berkeley.

<sup>1</sup> In residence first half-year only; <sup>2</sup> second half-year only, 1917-18.

## VOLUNTARY ASSISTANTS

- HARRY PARTRIDGE, M.D., *Voluntary Assistant in Urology*,  
3004 Sixteenth street, San Francisco.
- FRANCIS M. SHOOK, M.D., *Voluntary Assistant in Laryngology, Otology,  
and Rhinology*, Oakland Bank of Savings building, Oakland.
- ARTHUR C. GIBSON, A.B., M.D., *Voluntary Assistant in Surgery*,  
135 Stockton street, San Francisco.
- FREDERICK H. ZUMWALT, M.D., *Voluntary Assistant in Orthopedic Surgery*,  
135 Stockton street, San Francisco.
- HUDSON SMYTHE, M.D., *Voluntary Assistant in Urology*,  
Stockton, California.
- CLARENCE A. WILLS, M.D., *Voluntary Assistant in Surgery*,  
San Leandro, California.

## ADMINISTRATIVE OFFICERS

- BENJAMIN IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., *President of the  
University, ex officio President of the Faculty*,  
California Hall, Berkeley.
- HERBERT C. MOFFITT, B.S., M.D., *Dean*,  
University Medical School, San Francisco.
- WALLACE I. TERRY, B.S., M.D., *Vice-Dean*,  
University Medical School, San Francisco.
- J. C. ROWELL, A.B., M.A., *Librarian*, University Library, Berkeley.
- H. L. LEUPP, A.B., *Associate Librarian*, University Library, Berkeley.
- JAMES SUTTON, Ph.B., *Recorder of the Faculties*, California Hall, Berkeley.
- L. S. SCHMITT, B.S., M.D., *Secretary*,  
University Medical School, San Francisco.
- H. T. SUMMERSGILL, M.D., *Superintendent of the University Hospital*,  
University Hospital, San Francisco.

## STANDING COMMITTEES OF THE MEDICAL SCHOOL

## ADVISORY BOARD

- |                                 |                   |
|---------------------------------|-------------------|
| BENJAMIN IDE WHEELER, President | G. H. WHIPPLE     |
| H. C. MOFFITT, Dean             | H. M. EVANS       |
| W. I. TERRY, Vice-Dean          | F. W. LYNCH       |
| F. P. GAY                       | T. B. ROBERTSON   |
| W. P. LUCAS                     | H. T. SUMMERSGILL |
| H. BRUNN                        |                   |



# COMMITTEE ON FIRST AND SECOND YEARS

This committee consists of the professors, associate professors, assistant professors and instructors responsible for instruction in the first and second years.

# COMMITTEE ON THIRD AND FOURTH YEARS

This committee consists of the professors, associate professors, assistant professors and instructors responsible for instruction in the third and fourth years.

# MEDICAL BOARD (S. F. HOSPITAL)

H. BRUNN

W. P. LUCAS

F. W. LYNCH

G. E. EBRIGHT

F. P. GAY

The Dean and Secretary are ex officio members of all standing committees.

# UNIVERSITY HOSPITAL MEDICAL STAFF

H. T. SUMMERSGILL, M.D.	Superintendent
H. C. MOFFITT, M.D.	Physician-in-Chief
W. I. TERRY, M.D.	Surgeon-in-Chief
F. W. LYNCH, M.D.	Director of Woman's Clinic
W. P. LUCAS, M.D.	Pediatrician-in-Chief
F. P. GAY, M.D.	Pathologist
H. MORROW, M.D.	Dermatologist
W. S. FRANKLIN, M.D.	Ophthalmologist
A. J. HOUSTON, M.D.	Laryngologist
L. S. SCHMITT, M.D.	Serologist
M. B. LENNON, M.D.	Neurologist
F. HINMAN, M.D.	Urologist
H. W. ALLEN, M.D.	Assistant Physician
E. S. KILGORE, M.D.	Assistant Physician
J. L. WHITNEY, M.D.	Assistant Physician
S. T. POPE, M.D.	Assistant Surgeon
H. C. NAFFZIGER, M.D.	Assistant Surgeon
W. I. BALDWIN, M.D.	Assistant Surgeon
H. E. RUGGLES, M.D.	Röntgenologist

S. H. HUEWITZ .....	Director of Laboratories
M. E. BOTSFORD, M.D. ....	Anesthetist
M. KAVANAUGH, M.D. ....	Anesthetist
J. C. NEEL, M.D. ....	Assistant in Woman's Clinic
R. L. ASH, M.D. ....	Assistant Pediatrician
OLGA BRIDGMAN, M.D. ....	Assistant Pediatrician
V. B. APPLETON, M.D. ....	Assistant Pediatrician
HUGH K. BERKLEY, M.D. ....	Assistant Pediatrician
J. V. COOKE, M.D. ....	Assistant Pathologist

#### RESIDENT HOUSE STAFF (UNIVERSITY HOSPITAL)

JOHN H. WOOLSEY, M.D. ....	Resident Surgeon
ALICE F. MAXWELL, M.D. ....	Resident in Woman's Clinic
ADOLPH G. SCHNACK, M.D. ....	Resident Pediatrician
JOHN M. REHFISCH, M.D. ....	Assistant Resident Physician
ROBERT R. NEWELL, M.D. ....	Assistant Resident Physician
MARGARET SCHULZE, M.D. ....	Assistant Resident in Woman's Clinic
— M.D. ....	Assistant Resident Pediatrician

#### INTERNS

F. P. BRENDEN, M.D.	V. A. MULLER, M.D.
M. L. COHN, M.D.	A. S. PENNINGTON, M.D.
C. A. CRAIG, M.D.	M. SCHULZE, M.D.
J. FAY, M.D.	A. A. SHUFELT, M.D.
H. W. FLEMING, M.D.	W. W. WASHBURN, M.D.
H. E. MILLER, M.D.	E. R. ZUMWALT, M.D.

#### OUT-PATIENT DEPARTMENT

H. C. MOFFITT, M.D., Physician-in-Chief.  
 W. I. TERRY, M.D., Surgeon-in-Chief.  
 W. P. LUCAS, M.D., Pediatrician-in-Chief and Director of the Out-Patient Department.  
 F. W. LYNCH, M.D., Director of Woman's Clinic.  
 Mrs. EMILY REED, Record Clerk.  
 ERNEST RADGES, Assistant Record Clerk.  
 PETREA LUDWIG, Head Nurse.

**GENERAL MEDICINE**

E. J. BEST, M.D., Chief of Clinic.  
L. LANGSTROTH, M.D.  
W. W. BEHLOW, M.D.

H. LISSER, M.D.  
E. H. FALCONE, M.D.  
E. ROSENCRANTZ, M.D.

**NEUROLOGY**

M. B. LENNON, M.D., Chief of Clinic.  
C. L. TRANTER, M.D.

R. W. HARVEY, M.D.  
H. W. WRIGHT, M.D.

**PSYCHIATRY**

Eva C. REID, M.D., Chief of Clinic.

**DERMATOLOGY**

H. MORROW, M.D., Chief of Clinic.  
L. S. SCHMITT, M.D.  
A. W. LEE, M.D.

B. STONE, M.D.  
LORAIN WILBUR

**PEDIATRICS**

R. L. ASH, M.D.  
OLGA BRIDGMAN, Psychologist.  
V. B. APPLETON, M.D.  
E. M. WATERS, M.D.  
ADOLPH G. SCHNACK, M.D.

A. E. MEYERS, M.D.  
H. K. BERKLEY, M.D.  
W. A. WOOD, M.D.  
MABEL F. GIFFORD  
S. A. WHITE, D.D.S.

**GENERAL SURGERY**

E. I. BARTLETT, M.D., Chief of Clinic.  
— — —, M.D.

E. L. BARNEY, M.D.  
— — —, M.D.

**OPHTHALMOLOGY**

W. S. FRANKLIN, M.D., Chief of Clinic.  
E. F. GLASER, M.D.

— — —, M.D.

## LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY

A. J. HOUSTON, M.D., Chief of Clinic.	H. B. CHRISTIANSEN, M.D.
F. C. LEWITT, M.D.	J. B. THOMAS, M.D.
A. W. JOHNSON, M.D.	F. M. SHOOK, M.D.
HENRY HORN, M.D.	

## UROLOGY

F. HINMAN, M.D., Chief of Clinic.	L. P. PLAYER, M.D.
J. V. LEONARD, M.D.	H. PARTRIDGE, M.D.

## ROENTGENOLOGY

H. E. RUGGLES, M.D., Chief of Clinic.	L. BRYAN, M.D.
---------------------------------------	----------------

## ORTHOPEDIC SURGERY

W. I. BALDWIN, M.D., Chief of Clinic.	A. L. FISHER, M.D.
H. H. MARKEL, M.D.	
MARGARET ANDREW, in charge of Medical Gymnastics.	
J. W. RHODES, Mechano-Therapeutist.	
F. E. BOERKE, Mechano-Therapeutist.	

## WOMAN'S CLINIC

J. C. NEEL, M.D., Chief of Clinic.	ALICE F. MAXWELL, M.D.
M. SCHULZE, M.D.	

## TUBERCULOSIS CLINIC

G. H. EVANS, M.D., Chief of Clinic.	L. S. MACE, M.D.
-------------------------------------	------------------

## SEROLOGICAL LABORATORY

L. S. SCHMITT, M.D., Chief	Miss ELIZABETH HENZEL
----------------------------	-----------------------

SOCIAL SERVICE DEPARTMENT

LOUISE MORROW, M.D., Director of Social Service.  
 ROSE STEINHART, Assistant Social Worker, in charge of Infants.  
 MAUDE E. MORRISON, R.N., Prenatal Nurse.  
 SUSAN M. BRIGGS, R.N., Prenatal Nurse.  
 KATE M. DAVIS, R.N., Infant Welfare Nurse.

SAN FRANCISCO HOSPITAL MEDICAL STAFF

G. E. EBRIGHT, M.D. ....	Physician-in-Chief
HAROLD BRUNN, M.D. ....	Surgeon-in-Chief
W. P. LUCAS, M.D. ....	Pediatrician-in-Chief
HOWARD MORROW, M.D. ....	Dermatologist
J. V. COOKE, M.D. ....	Pathologist
G. H. EVANS, M.D. ....	Visiting Physician
W. F. BLAKE, M.D. ....	Ophthalmologist
W. G. MOORE, M.D. ....	Gynecologist
M. B. LENNON, M.D. ....	Neurologist
L. S. SCHMITT, M.D. ....	Serologist
L. I. BREITSTEIN, M.D. ....	Obstetrician
W. P. WILLARD, M.D. ....	Urologist
F. C. LEWITT, M.D. ....	Laryngologist
L. S. MACE, M.D. ....	Assistant Visiting Physician
L. P. HOWE, M.D. ....	Assistant Visiting Surgeon
H. C. NAFFZIGER, M.D. ....	Assistant Visiting Surgeon
R. W. HARVEY, M.D. ....	Assistant Visiting Neurologist
B. STONE, M.D. ....	Assistant Dermatologist
H. W. WRIGHT, M.D. ....	Assistant Neurologist
H. H. MARKEL, M.D. ....	Assistant Visiting Surgeon
L. H. BRIGGS, M.D. ....	Assistant Visiting Physician
H. S. THOMPSON, M.D. ....	Assistant Visiting Surgeon
C. B. BRICCA, M.D. ....	Visiting Laryngologist
E. C. FLEISCHNER, M.D. ....	Assistant Pediatrician

RESIDENT HOUSE STAFF (SAN FRANCISCO HOSPITAL)

— — —, M.D., Resident Physician.  
 R. S. SHERMAN, M.D., Resident Surgeon.

INTERNS

P. J. CALVI, M.D.	E. MEHLMANN, M.D.
W. C. FREY, M.D.	D. W. SOOY, M.D.
LOUISE H. STEEL-BROOKE, M.D.	

## HISTORY AND DEVELOPMENT OF THE SCHOOL

---

In 1862 Dr. H. H. Toland erected a building to serve as the nucleus of a medical school. This was subsequently known as Toland Hall, and in 1872 was formally transferred to the Regents of the University of California as a department of the University. For many years the affiliation was merely nominal and the medical faculty was in entire control of the policy of the school, the support of the institution being derived from fees of the students.

In 1895 the course of instruction was extended from three to four years. In 1898 the school was moved to its present location on Parnassus Heights, a tract of land of thirteen and one-half acres donated to the University by the late Adolph Sutro. Funds were provided by the Legislature to erect buildings for law, medicine, dentistry and pharmacy, and at a later date the law building was transferred by the Board of Regents to the Medical School.

In 1902 the Board of Regents adopted a resolution of vital importance to the Medical School. Instead of preserving the former loose affiliation it was determined to regard the medical department as an integral part of the University. The properties of the school were transferred to the University, the students' fees were turned into the general University fund and support of the school was assumed by the Regents. The first two years of medicine were at once put upon an academic basis and suitable laboratories equipped.

With the destruction of the Out-Patient Department by the earthquake and fire of 1906 it became necessary to transfer the work of the first two years to Berkeley and to transform the main building of the school into a hospital and out-patient clinic. In December, 1911, the Regents of the University announced their intention of bringing together the various departments of the school, of providing a proper modern teaching hospital and of placing the clinical years upon an academic basis. Therefore, on April 9, 1912, it was resolved to consolidate all departments of the school in San Francisco as soon as feasible. A recommendation of the President of the University was adopted which provided a plan of reorganization for the clinical years.

Clinical instruction is now divided into four main departments—Medicine, Surgery, Diseases of Women, and Pediatrics. The departments of Obstetrics and Gynecology and Pediatrics are in charge of full-time teachers, and as soon as possible the departments of Medicine and Surgery will be placed upon the same basis.

In 1914 a Department of Tuberculosis and a Department of Psychiatry were established and work in these departments included in the curriculum.

In 1915 arrangements were perfected by which an agreement with the Hospital for Children and Training School for Nurses was brought about and in the same year the Regents of the University agreed to take over the Hahnemann Medical College of the Pacific and to include electives in Homeopathy in the curriculum of the Medical School.

In 1916 Biochemistry was separated from Physiology and a department of Biochemistry and Pharmacology established. A department of Preventive Medicine and Hygiene has also been started.

During the same year the Regents adopted a plan for the future development of the school. This plan contemplates the building of a nurses' home in connection with the new University Hospital, new buildings to house the departments of Anatomy and Pathology, the erection of an out-patient building, the adaptation of existing buildings for purposes of administration, students' quarters, laboratories, library space, and to house the departments of Physiology and Biochemistry.

#### THE GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH

In memory of her husband, George Williams Hooper, a pioneer citizen of San Francisco, Mrs. Hooper, on Commencement Day, May 14, 1913, transferred to the Regents of the University certain valuable property to serve as a foundation for an institute of medical research. The income at present provided is \$50,000 a year, but \$100,000 per annum will be available in a few years.

The formal opening of the Foundation was celebrated on March 7, 1914. Addresses were delivered by Dr. Henry S. Pritchett, President of the Carnegie Foundation for the Advancement of Teaching; Dr. Richard M. Pearce, Professor of Research Medicine, University of Pennsylvania; and Hon. Curtis H. Lindley. The policy and work of the Foundation is determined by an advisory board of seven members conferring with the Regents of the University.

The building formerly occupied by the Veterinary School has been devoted by the Regents of the University to the work of the Foundation. Dr. George H. Whipple, formerly Associate Professor of Pathology in Johns Hopkins University, is Director, and is also Professor of Research Medicine in the Medical School. The work of the Hooper Foundation, therefore, is closely correlated with that of the Medical School. Men at work in the Research Laboratory have free access to the University Hospital wards and positions in the Hooper Foundation will be available for men in the Medical School who desire to enter a career in research medicine. The work of the Hooper Foundation in no way replaces any of the research in the various departments of the Medical School.





# **REQUIREMENTS FOR ADMISSION AND GRADUATION**



## REQUIREMENTS FOR ADMISSION\*

---

A preliminary collegiate preparation is required for the course in medicine, and men and women are admitted on the same terms. As candidates for the degree of Doctor of Medicine the school receives the following:

1. Graduates of approved colleges or scientific schools who present evidence of a satisfactory training in chemistry, physics and zoology and a reading knowledge of German or French. The courses in chemistry must include inorganic and organic chemistry.

2. Students in the College of Letters and Science of this University who have attained senior standing may, at the beginning of their fourth or senior year in the University, register as students in the Medical School, and upon completion of the first year in the Medical School may receive the bachelor's degree in the College of Letters and Science. Such students must also furnish evidence that they have had a satisfactory training in chemistry, physics, and zoology, and that they possess a reading knowledge of German or French.

3. Students who has satisfactorily completed at least two full years of collegiate work and who have received the junior certificate of this University, or its equivalent.

The studies pursued during the two years which lead to the junior certificate include English, American history and civics, mathematics, chemistry, biology (zoology), physics, and German or French.† Applicants for admission to the Medical School who have pursued their pre-medical studies in some other university must submit credentials from the institution in which they have studied. This statement should include the number of hours devoted to classroom and laboratory work and also the grade received in each subject. For the guidance of those who wish to arrange their preliminary training the following courses given in this University present the minimum of satisfactory preparation in the sciences named (numbers refer to the Announcement of Courses for 1917-18): Chemistry 1A-1B, 8A-8B, 9; Physics 2A-2B, and 3B; Zoology 1A, 1B, 10B. These courses are described below.

---

\* All inquiries should be addressed to the Dean of the University of California Medical School.

† Certain state boards of examination require all subjects to be completed before admission to medical study.

**CHEMISTRY****1A-1B. General Inorganic Chemistry and Qualitative Analysis.**

3 hrs., lectures and quiz, and 4 hrs. laboratory work, throughout the year; 5 units each half-year.

Lectures and quiz.

Associate Professor HILDEBRAND; Associate Professor BRAY, Assistant Professor BOOTH, Drs. GIBSON, ARGO, BRANCH, EASTMAN, and RODEBUSH.

Two sections: M W F, 9; M W F, 10.

Laboratory.

Assistant Professor BOOTH; Associate Professors BRAY and HILDEBRAND, Drs. GIBSON, ARGO, BRANCH, EASTMAN, and RODEBUSH.

Four sections: I, M F, 1-3; II, Tu Th, 9-11; III, Tu Th, 1-3; IV, W, 1-3; S, 9-11. Prerequisite: matriculation chemistry, subject 12b. In special cases students who have credit for matriculation physics may be allowed to take this course without the chemistry prerequisite, but in no case without the written consent of the instructor.

**8A-8B. Elements of Organic Chemistry.**

Dr. PORTER.

An introductory study of the compounds of carbon. Recitations and lectures with experimental illustrations. Laboratory course 9 should, if possible, accompany this course.

2 hrs., throughout the year. Tu Th, 8. Fortnightly quiz, hour to be arranged, probably M or Tu, 4.

**9. Elements of Organic Chemistry: Laboratory.**

Dr. PORTER.

A comparative experimental study of the physical properties and chemical reactions of the more commonly occurring classes of organic substances. Supplementary to course 8A-8B and open to all students enrolled in that course.

6 hrs., either half-year; 2 units. M W or W F or M F, 1-4.

**PHYSICS****2A-2B. General Physics.**

Professor LEWIS and Associate Professor MINOR.

Lectures with experimental illustration and problems. Properties of matter, mechanics, heat, sound, light, energy transformation, electricity, and magnetism.

3 hrs., throughout the year. Prerequisite: matriculation subject 11, which may be waived in cases of distinct merit. Some knowledge of plane trigonometry is desirable. Sec. I, elective in the College of Letters and Science, M W F, 3, Professor Lewis. Sec. II, primarily for pre-medical students, Tu Th S, 11, Associate Professor Minor.

**3B. Physical Measurement.**

Associate Professor MINOR.

Experimental work in mechanics, properties of matter, heat, sound, light, electricity and magnetism, requiring quantitative results. Methods are selected so as to show instructive relations of physical principles and their adaptation to practical problems. Laboratory exercises twice a week. This course is usually taken in conjunction with 2A-2B.

6 hrs., second half-year; 2 units. Sec. I, M F, 1-4; II, Tu Th, 1-4; III, W, 1-4; S, 8-11. Prerequisite: matriculation subject 11.

**ZOOLOGY**

**1A. General Zoology.**

Professors KOFID and HOLMES, Associate Professor DANIEL, Assistant Professors LONG, CORT, Dr. BARROWS, and Assistants.

An introduction to the facts and principles of animal biology, with special reference to the structure, functions, and evolution of animal life.

Lectures, 2 hrs., laboratory, 4 hrs., first half-year; 4 units. Lectures, Tu Th, 10; laboratory sections: I, M W, 8-10; II, M F, 2-4; III, Tu Th, 8-10; IV, Tu Th, 2-4; V, W, 2-4; S, 9-11 or 10-12.

The laboratory exercises are essentially illustrative of lectures and are based on the examination of living and prepared specimens, supplemented by models and charts. Professor Cort in charge.

**1B. General Zoology.**

Associate Professor DANIEL and Assistants.

A continuation of course 1A. The behavior, structure, and development of animal types, with special reference to the lower vertebrates.

6 hrs., second half-year; 4 units. Lectures, Tu Th, 10; laboratory, three sections: I, Tu Th, 8-10; II, Tu Th, 2-4; III, W, 2-4; S, 9-11. Prerequisite: course 1A.

**108. Embryology.**

Assistant Professor LONG.

The phenomena of animal development, fundamental facts of reproduction, comparative embryology and organogeny of the higher vertebrates. Lectures, reading, and laboratory.

8 hrs., second half-year; 4 units. Lectures, Tu Th, 9. Laboratory, two sections: I, Tu Th, 8-9, 10-12; II, Tu Th, 1-4. Prerequisite: courses 1A and 1B.

The following courses offered in the Summer Session of 1917 may be substituted for those of the above designated by similar numbers.

**CHEMISTRY****S8A. Elements of Organic Chemistry.****Professor FRANKLIN.**

An introduction to the study of compounds of carbon. Recitations and lectures with experimental illustrations. 2 units.

M Tu W Th F, 11.

**PHYSICS****S3AB. Physical Measurement.****Dr. GARDNER.**

A laboratory course in general physics, offering opportunity for experimental work in mechanics, properties of matter, heat, sound, light, electricity and magnetism, requiring quantitative results. The course, in detail, will be adapted to the needs of individual students and may cover any portion of the laboratory work of the regular session. Credit, not to exceed 4 units, may be given for the course.

M Tu W Th F, 9-12 and 1-4.

**ZOOLOGY****S108. Embryology.****Mr. TAYLOR.**

The fundamental facts of reproduction, the early stages of development of vertebrates, the formation of organs, and the foetal membranes of mammals, including man. Laboratory study of preparations of chick and pig embryos. Lectures, demonstrations. Laboratory fee \$5, of which \$3 will be retained and the balance, after deducting for breakage, refunded. 4 units.

M Tu W Th F, 8-12.

In preparation for these studies it may be mentioned that high school physics and chemistry are necessary in order to enroll in the beginning university courses in the same subjects. Whereas these requirements as specified will be accepted for admission in the medical school, it should be pointed out that it is highly desirable that the student should not content himself with the acquisition of a junior certificate, but should take at least three years of college work, if possible. By this means not only is more time offered for work in subjects of general culture outside the scientific requirements but by a combined eight-year course (three years as an undergraduate in the university and five years in the medical school) the two degrees of A.B. and M.D. may be obtained.

Students taking the combined course have the privilege of broad

election from the various departments of the University, and they are advised to make their selection from subjects not related to the specific requirements.

The faculty of the Medical School is authorized to refuse admission to students who have a low academic record.

#### ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing may become candidates for the degree of M.D. under the following conditions: (1) They must furnish evidence that they were eligible for admission to the first year of this school. (2) They must show that courses equivalent in kind and amount to those given in this school in the year or years preceding that to which admission is desired have been satisfactorily completed in an acceptable medical school.\* Students taking work at a college with a lower classification will not be granted credit. (3) At the discretion of the Dean, they must be prepared to pass examinations in those subjects for which they ask credit.

#### INSTRUCTION FOR GRADUATES IN MEDICINE

Graduates in medicine may arrange with the heads of the different departments for special work. Graduate students may enter at any time during the year and must register at the Dean's office before beginning work.

Except under extraordinary circumstances and at the discretion of the Advisory Board of the Medical Faculty, persons who have already received the degree of Doctor of Medicine will not be admitted as candidates for that degree from this University.

#### CLASS STANDING AND EXAMINATION

The judgment of an instructor upon the work of a student may be determined by (a) personal contact and observation of routine work, (b) by oral, written or practical examination, (c) by a combination of these methods.

It is optional with each department whether students are examined at the end of each course or examined when the work of a department is completed.

For the determination of the students' right to advancement and graduation each department makes such rules as it deems necessary, and

\* By an acceptable medical school is meant one classified as "A" by the American Medical Association, and whose entrance requirements are equivalent to those of this School.

the result is indicated as "Passed with Honor," "Passed," or "Not Passed."

At the end of the third half-year and at the end of the period of required work the students' records are referred to the respective committees on instruction for review. Students who fail to pass in any two major subjects, in one major and three minor subjects, or in six minor subjects may be dropped from the Medical School. Students who fail to pass in a major subject or in three minor subjects will be placed on probation and must take a second examination before the following half-year. Students who fail in the second examination may be dropped from the Medical School.

Students who have an unabsolved failure in any one subject of the first three half-years will not be permitted to enter the third year except by recommendation of the Advisory Board of the Medical School.

Students who have an unabsolved failure at the end of the fourth year will not be recommended as entitled to the degree of Doctor of Medicine or permitted to enter their intern year until the failure is absolved in such manner as may be indicated by the Advisory Board of the Medical School.

The Faculty reserves the right to sever the connection of any student with the Medical School at any time for what it deems either mental, physical, or moral unfitness for a career in medicine.

#### LEAVES OF ABSENCE

Students who withdraw from the Medical School without notice or who fail to report after a leave of absence may have their connection with the Medical School terminated.

#### REQUIREMENTS FOR GRADUATION

The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years and must be of good moral character. He must have studied medicine for four full years and must have attended four annual courses as a matriculated student (not including the fifth, or intern year), the last of which has been spent in this school. He must have completed the required work, have fulfilled satisfactorily all special requirements, and have received a satisfactory grade throughout the entire medical course. He must have discharged all indebtedness to the school.

#### FIFTH YEAR

Students are required to supplement the academic course in medicine with a year as intern in an approved hospital or laboratory, or as a



special worker in a department of the Medical School. Qualified students may take their year's laboratory work after the third semester.

During the period of the war the fifth year requirement may be suspended for those students desiring to enter the army or navy.

### CURRICULUM IN PUBLIC HEALTH

At the beginning of the second half of the fourth year in the Medical School students may elect to enter Public Health Curriculum C. This curriculum extends over a year and a half, and on its satisfactory completion the candidate is granted the degrees of Doctor of Medicine and Graduate in Public Health (Gr.P.H.).

The first year is devoted to courses offered by the various colleges of the University in Berkeley and the last half-year is devoted to work given in the Medical School.

### PUBLIC HEALTH CURRICULUM C

#### FOURTH YEAR IN MEDICINE

##### *Second Half-year (Berkeley)*

Subjects	Units
Civil Engineering 124 .....	3
Civil Engineering 128 .....	3
Economics 140 .....	3
Entomology 126 .....	3
Entomology 127 .....	2
Hygiene 104 .....	3
Hygiene 108B .....	3
	<hr/>
	19

#### FIFTH YEAR IN MEDICINE

##### *First Half-year (Berkeley)*

Subjects	Units
Civil Engineering 125 .....	2
Hygiene 107 .....	3
Hygiene 108A .....	3
Political Science 115 .....	2
Veterinary Science 117 .....	3
	<hr/>
	13

*Second Half-year (Medical School)*

<b>Assignments</b>	<b>Units</b>
San Francisco Health Department .....	4
Social Service Department .....	4
State Board of Health .....	4
Field Work in Epidemiology Research (with thesis) .....	4

---

 16

For students in public health and graduates in sanitary engineering provision is made in Public Health Curricula A and B, each leading to the degree of Graduate in Public Health. The instruction of the last year in each of these two curricula is given in the Medical School. Outlines of these curricula will be found in the *Announcement of the Graduate Division* and the *Circular of Information, Academic Departments*.

## **GENERAL INFORMATION**



## REGISTRATION

Applications for admission and for advanced standing must be addressed to the Dean of the Medical School, San Francisco. *They must be received at least one month prior to the beginning of the term, to allow time for investigation.*

Students will not be admitted to medical courses until they have registered at the office of the Secretary of the Medical School, Parnassus and Second avenues, San Francisco.

## FEES

The charge for tuition is one hundred and fifty dollars per annum, payable in two installments, August and January. Students will not be admitted to the courses until they have paid their fees for the ensuing half-year. A key and breakage deposit of \$25 in the first and second years and of \$10 in the third and fourth years is required for the use of lockers and to cover the cost of material used in laboratories and possible damage to college buildings and equipment.

In the first year there is an additional fee of \$15 for dissecting material, \$5 for each part.

During the first year and a half an Infirmary and Gymnasium fee of \$5 per half-year is required.

Students not registering on the dates announced will be charged \$2 additional.

Students not appearing for examinations on specified dates will be required to pay a fee of five dollars for a special examination.

Students registered in the Medical School and taking less than the required amount of work in any given half-year are required to pay a proportionate fee for tuition. Such students must first obtain the permission of the Medical Faculty.

## MICROSCOPES AND BLOOD-COUNTING APPARATUS

Students are advised to purchase their own microscopes, but those who do not care to do so may rent one from the school at a cost of five dollars per annum, with an additional charge of two dollars if an oil immersion lense is desired. Students using microscopes which belong to the school are liable for damage done the instruments while in their possession.

*The character of the practical work requires that each student own a blood-counting apparatus and ophthalmoscope. These should be purchased at the beginning of the second half of the second year.*

*Students are also required to supply themselves with the necessary slides and coverslips.*

### MEDICAL SUPERVISION OVER STUDENTS

Each year the faculty appoints a medical adviser to the students in the Medical School. This officer keeps a definite hour for consultation and when necessary visits students in their homes. Through him the services of specialists are secured when indicated.

Students of the first- and second-year classes are entitled to the advantages offered by the University of California Students' Infirmary in Berkeley. Students resident in Berkeley and requiring hospital care are provided for in the Infirmary, unless special nurses are necessary. Students of the third and fourth classes are similarly provided for in the University Hospital. A number of beds have been endowed for this purpose.

Medical students, as well as all other students, in the University of California are required to pass a physical examination by the Medical Examiner before entrance to the University.

### LIBRARIES

Instruction in the medical sciences and the various branches of clinical medicine is incomplete without constant reference to current and authoritative monographic and periodical literature. In research work the need of a complete reference library is obvious.

Each of the departments in Berkeley—Anatomy, Physiology, Biochemistry, Pathology and Bacteriology—contains a separate departmental library which, although a unit of the general University Library, is thus segregated as part of the working equipment of each department. Through the generosity of Mrs. Phoebe A. Hearst and Mrs. William H. Crocker, these departmental libraries are unusually complete; they also participate in the annual distribution of University Library funds.

The library at the Medical School in San Francisco contains a good collection of textbooks and monographs, which is increased each year through a special annual appropriation. The best current journals in French, German, and English are on file. A trained librarian is in charge of this library.

### LABORATORIES AND CLINICAL OPPORTUNITIES

Medical instruction of the first year and a half is carried on in the separate departmental buildings of Anatomy, Physiology, Biochemistry, and Pathology and Bacteriology situated on the University Campus in Berkeley. The present laboratory buildings are regarded as temporary, but are spacious and easily increased in size to meet growing demands; they are fully equipped not only for teaching but for research.

A new students' laboratory has been equipped in one of the existing buildings in San Francisco. This is used for instruction in clinical pathology, taught in the second half of the second year and also used by the students of the third and fourth years, to perform their necessary individual laboratory work. The various clinical departments have laboratories situated in the buildings in San Francisco.

#### THE UNIVERSITY HOSPITAL

The University Hospital is essentially a teaching hospital under the control of the Board of Regents of the University of California. The medical affairs of the hospital are so managed as to secure the most thorough utilization of the patients for the purpose of instruction and research.

Several endowment funds and the support of the University make free beds available for the study of interesting and unusual cases. The Associated Charities of San Francisco send to the hospital a number of deserving patients. Clinical material also is drawn from distant points. It is aimed to make this hospital a consulting place, to a great extent, for physicians of the State, a place where patients unable to pay for costly examinations or expert opinion may be sent for further investigation, returning to their own physicians with a report of the findings.

The new hospital building was erected and equipped by friends of the University at a cost of about \$750,000. It is located on Parnassus avenue, between Third and Fourth avenues, directly adjoining the Medical School. The site overlooks Golden Gate Park, the Presidio of San Francisco, San Francisco Bay, and the Pacific Ocean.

The hospital has a capacity of 220 beds, of which 50 are assigned to each of the following services, viz.: medicine, surgery, women's, and pediatrics. These different divisions are separated into distinct units, each pavilion extending back from the upper two floors of the main hospital building.

The main building is seven stories in height and extends along the entire Parnassus avenue frontage.

The floors are devoted respectively (1) to engine room, power plant, laundry and storage accommodations; (2) to kitchens, dining-rooms, laundry and receiving department for ambulance patients; (3) the main or administrative floor, to students' lobby, and students' recreation room. At the extreme western end of this floor are quarters for the house staff; on this floor also are the offices of the department chiefs; (4) operating rooms and laboratories; (5) actinography, photography, drug department, and isolation department; (6 and 7) ward floors—these are divided into separate units from east to west: (a) medicine, (b) surgery, (c) women's,

(d) children's. Each ward unit is provided with its own teaching-room and laboratory.

As the investigation of obscure diseases and the instruction of medical students and post-graduates are two of the chief aims of the hospital, facilities for these purposes have been carefully provided.

There are four main operating rooms and two smaller operating rooms for use of the specialists. A separate entrance and lobby is provided for students. By this arrangement greater privacy is obtained for patients. This arrangement also possesses great advantages for the students as well as the staff.

Similarly throughout the hospital its efficiency as a teaching institution has been kept paramount. The construction is such that the capacity of the hospital may be doubled at comparatively small expense.

#### THE SAN FRANCISCO HOSPITAL

The San Francisco Hospital has occupied its new buildings since July 1, 1915.

The present group consists of an executive building and sixteen large wards, with well arranged service rooms and clinical laboratories adjacent.

One wing contains the surgical unit, with six large operating rooms and the amphitheater, a well equipped Roentgen-ray department, and an emergency hospital. This latter will, during the coming year, serve as the main operative department for the city's Emergency Service, and will give unexcelled advantages to the interns and students in emergency surgical work.

The pathological building is now nearing completion. On the first floor there is a morgue room, with twenty-four De Camio mortuary slabs, so that bodies may be kept in refrigeration. Adjoining this is a large pavilion and amphitheater for post-mortem work and a series of rooms, kennels for research work, preparation rooms, etc. The second floor, when completed, will be used as the main chemical and biological laboratories of the Department of Public Health. Opportunity will be furnished here for interns to receive instruction in laboratory work, including the examination of milk, water, blood, toxicological specimens and preparation of vaccines.

The post-mortem material in the hospital is invaluable.

The new tuberculosis wards to accommodate 250 beds and the isolation wing of 110 beds for infectious diseases are now in the course of construction.

The Medical School controls approximately 100 beds (exclusive of the tuberculosis wards). These are equally divided for instruction in clinical medicine, clinical surgery, and the specialties. Additional wards are used



for the teaching of gynecology and obstetrics and pediatrics. The laboratories adjacent to the wards are fully equipped for the use of interns and students and the new laboratory building will give opportunity for special research.

#### OUT-PATIENT DEPARTMENT

The Out-Patient Department of the University Hospital provides facilities for instruction in all branches of clinical medicine and surgery. Diseases of every type are treated in the various clinics, each of which is under the supervision of a chief who is responsible for the instruction of the students.

During the third year and the first half of the fourth year groups of students are assigned to the clinics in medicine, surgery, woman's, pediatrics, dermatology, urology, ophthalmology, laryngology, orthopedic surgery, etc. In the last half of the fourth year students may elect to act as clinical clerks in some of the departments mentioned.

A large and varied clinical material is available and each year the growth of this department has been manifested by a continuous increase in the number of patients treated during the year. At present the daily average number of visits to the clinics is over 240. On account of this increase, clinics are being started in the afternoons to take care of the overflow. At these afternoon clinics in pediatrics fourth year students are assigned for definite clinical work. With this exception, all clinics are held simultaneously in the morning, so that patients may be referred from one clinic to another with great facility.

#### SOCIAL SERVICE DEPARTMENT

The Social Service Department has been thoroughly organized for the past two years. During 1916-17 there have been workers in the medical, woman's and children's clinics, and in addition voluntary assistance by students of the University has aided materially in carrying on the work of this department. The Social Service Department is in touch with all the various sources for medical care throughout the city, which very greatly facilitates the referring of cases to and from institutions and associations. A course for social service workers is being offered by the department in conjunction with the Department of Social Economics of the University. This work is under the direction of Dr. Louise Morrow, who is connected with the latter department as a lecturer and with the Medical School as assistant in pediatrics. An opportunity to study medical social service is offered to students working in the Out-Patient Department.

**TUBERCULOSIS CLINICS**

The Department of Tuberculosis is under the charge of Dr. George H. Evans and is now maintained in conjunction with the San Francisco Society for the Study and Prevention of Tuberculosis. Upon the construction of an out-patient building this clinic will be established in conjunction with the Out-Patient Department of the University Hospital. Dr. Evans is also in charge of the University of California Medical School's service at the tuberculosis wards of the San Francisco Hospital. By this arrangement tuberculous patients of all types are available for investigation and teaching purposes.

**THE CANCER WARD**

Through the generosity of a friend of the Medical School a ward in the hospital is reserved for the treatment of patients suffering from malignant diseases. Advanced and inoperable cases are received, as well as those not too far advanced to be benefited by surgical or other treatment. Thus the variety of cases and the long residence of certain of them afford an unusual opportunity to observe all phases of malignant diseases.

**THE HOOPER FOUNDATION FOR MEDICAL RESEARCH**

The institution is located in a building adjacent to the hospital and its Director is also Professor of Research Medicine in the Medical School. A number of beds in the hospital are at the disposal of the Foundation and are occupied by patients suffering from diseases which at the moment are the subject of study and investigation by members of the Research Laboratory staff.

Professor Whipple and his associates offer elective courses to the medical students and a limited number of students may undertake research problems. The selection of such students will depend upon their fitness for this work. Opportunities also will be afforded graduates in medicine who wish to enter upon a career of research.

**TEACHING FACILITIES AT THE CHILDREN'S HOSPITAL**

An agreement with the Hospital for Children and Training School for Nurses adds a large amount of available teaching material. The children's medical, surgical, and orthopedic services have about seventy beds available for teaching purposes, and with the contagious pavilion the opportunities for instruction are very good. Opportunities for small sections to elect work in the Children's Hospital is possible.

**COURSES IN HOMEOPATHY**

The Regents of the University have accepted the proposal of the Hahnemann Medical College of the Pacific and now offer elective courses in homeopathy in the University of California Medical School upon the following basis:

1. Beginning in August, 1915, all students matriculating in medicine must fulfill the requirements demanded by the University of California Medical School.

2. Instruction in Homeopathy is in charge of two professors, a Professor of Homeopathic Materia Medica and a Professor of Applied Homeopathic Therapeutics.

3. All students in the first two years take all work in common except in Materia Medica. In this subject 32 hours of so-called "Regular" Materia Medica and 32 hours of Homeopathic Materia Medica is given in the second half of the second year. Students may elect either one of these courses and hours of instruction are so arranged as to permit of election of both courses by all students who may so desire.

4. In the third and fourth years all students take the same courses except in Materia Medica and Therapeutics and Clinical Medicine. Elective courses in these subjects is offered so that students may choose whether they take work under instructors of the so-called "Regular" or of the "Homeopathic" school.

**SCHOLARSHIPS**

Through the generosity of Mrs. Frances B. Sanborn, one of the three scholarships known as the Sheffield Sanborn Scholarships has been assigned to the Medical School. This scholarship yields \$250 per annum at present and is open only to students who have not yet received the degree in medicine and who otherwise would not have the opportunity to acquire a university training.

The Willard Thompson Scholarship is open to students of the Medical School who are residents of Utah. This scholarship yields \$600 per annum.

Recently the alumni of the Medical School have established a scholarship known as the "William Watt Kerr Scholarship in Medicine." It yields \$400 per annum and is awarded to a worthy student of the Medical School.

Applications for these scholarships should be filed with the Recorder of the Faculties by March 1 of each year. A blank form of application may be obtained from the Recorder of the Faculties at Berkeley.

**FELLOWSHIPS**

Two fellowships are offered by the George Williams Hooper Foundation for the year 1917-18. Each student fellow receives a grant of \$600 and is charged no medical school nor laboratory fees. Applicants must have had at least one and one-half years of medical school training in the University of California Medical School or its equivalent. A year is devoted to this work, and consists mainly of research in experimental medicine. This work will be in part independent but in part coöperative research with other members of the laboratory staff. The fellow is expected to do some advanced work in gross pathology, and get a broad training in pathological anatomy. The work of this fellowship should give the research fellow exceptional training in the fundamental medical sciences and a broader outlook in general medicine. The value of this fundamental training to the medical student can not be overestimated, and a true understanding of research medicine can be obtained in no other way.

The work done under this fellowship, if satisfactory, may count as the fifth year in medicine. If the necessary preliminary requirements have been fulfilled, it may also count toward the attainment of a higher degree (Master's Degree or Doctor of Philosophy).

**HOSPITAL APPOINTMENTS**

Internships in the University Hospital are open to eleven graduates of the University of California Medical School or of some other approved medical school. Ten interns are assigned to the various clinical departments and one as pathological intern. Interns serve for one year, without salary. The appointments are made upon the recommendation of the Advisory Board of the Medical School, which takes into account both the character of the work of the candidate throughout his entire career in the Medical School and also his general fitness.

Internships in the San Francisco Hospital also are awarded to six members of the graduating class. Positions in some of the private hospitals in San Francisco are filled annually either upon recommendation of the Medical Faculty or by competitive examination.

The Regents of the University have provided positions for residents in medicine, surgery, obstetrics and gynecology, and pediatrics, and assistant residents in surgery, gynecology and obstetrics and pediatrics at the University Hospital. These appointments, not necessarily limited to one year, are open to graduates in medicine who have had previous hospital experience and possess suitable qualifications for the work. The

residents receive \$600 and the assistant residents \$300 a year and accommodations in the hospital.

The positions of House Physician and House Surgeon on the University of California Medical School service at the San Francisco Hospital have been established.

LOAN FUND

Through the generosity of an alumnus of the Medical School a small sum of money has been set aside to be loaned to needy students of the upper classes. Applications for loans should be addressed to the Secretary of the Medical School.



# **PLAN OF INSTRUCTION AND ANNOUNCEMENT OF COURSES**





## PLAN OF INSTRUCTION

---

### GENERAL STATEMENT

As in other departments of the University, instruction in the Medical School extends from the middle of August to the middle of May. The academic year is divided into half-years of sixteen weeks duration. The first half-year extends from August to the Christmas recess; the second from January to the close of the academic year.

The chief aim of the school is to develop medical practitioners and to offer facilities which will enable qualified students to prepare themselves for special medical work. The faculty is in sympathy with the principle which allows the student great freedom in choosing the direction his studies shall take. A system of instruction has been inaugurated which will permit wide choice in selecting the work of the last half of the fourth year.

The course of instruction is in harmony with the principles adopted by the Association of American Medical Colleges. Following the terminology employed by that association, the amount of work required in various subjects is indicated by the number of hours devoted to them. But in the case of the fundamental sciences—anatomy, physiology, biological chemistry, pharmacology, pathology, and bacteriology—the courses are also assigned a "unit" value such as other departments of this University employ. This expression is used since, under certain conditions, the subjects mentioned may be elected by non-medical students to fulfill the requirements for degrees other than the medical. In so far as the courses required for medical students are concerned, these units have no particular significance. The elective courses in these departments, however, may be taken by medical students in fulfilling requirements for a Master's degree, and the required courses may be counted in the combined course as fulfilling units for the A.B. degree, as well as part of the work for the M.D. degree.

In general, the University has adopted, as a standard, a unit of sixteen hours of didactic teaching, or forty-eight hours of laboratory work. The unit of demonstrative or clinical teaching occupies a middle ground of thirty-two hours. Thirty-two units represent the work of the average year. Exceptional students can carry two to four units more.

In general, the five years curriculum leading to the degree of Doctor of Medicine falls into four periods: first, that devoted to the fundamental medical sciences; second, that occupied by clinical instruction; third, the elective period; and fourth, the intern or laboratory year.

As the requirements for admission are such that the student enters after he has received training in physics, inorganic and organic chemistry, and biology, these subjects are not taught in the medical school. The first period of instruction covers three half-years and is devoted to anatomy, histology, physiology, biological chemistry, bacteriology, and pathology. Nearly all the work in these subjects is obligatory. They provide the basis for the study of clinical medicine; and the laboratory instruction which occupies the major portion of the student's time during this period is planned to develop powers of accurate observation.

Clinical instruction begins with the second half of the second year. The initial courses in medicine and surgery deal chiefly with the problems of diagnosis. They aim to train further the faculty of critical observation and to instill into the student good habits in taking case-histories and in carrying out systematically the examination of patients. In this half-year also *materia medica*, pharmacology, preventive medicine and hygiene, clinical pathology, ophthalmoscopy and elementary neurology, dermatology and obstetrics are taught.

Obligatory clinical instruction continues through the third year, and is given in the classroom, the clinical laboratory, the dispensary, and at the bedside. In the Out-Patient Department students take the histories of patients and make the necessary examinations under the direction of the attending staff. In the wards of the University Hospital and the San Francisco Hospital they are assigned cases for thorough study and have every opportunity to become familiar with therapeutic methods. In this year some of the major subjects are completed. During the first half of the fourth year the required work in medicine, surgery, gynecology, pediatrics and the various specialties are completed.

The elective period consists of the second half of the fourth year. All departments of the school offer optional work, and in general three possibilities are open to the student: (a) he may elect a number of short courses with a view to becoming a general practitioner; (b) he may select a few long courses looking toward a career in some special field of practice; (c) he may devote his time to the laboratories of the fundamental sciences for the purpose of training as a teacher and investigator.

**ARRANGEMENT OF STUDIES, 1917-18**

**FIRST YEAR**

<i>Subject</i>	<i>Total hours required</i>
<b>First half-year:</b>	
Histology .....	192
Anatomy .....	496
	<hr/>
	688
<b>Second half-year:</b>	
Neurology .....	80
Physiology .....	336
Biochemistry .....	272
	<hr/>
	688

**SECOND YEAR**

<i>Subject</i>	<i>Total hours required</i>
<b>First half-year:</b>	
Topographical Anatomy .....	64
Morbid Anatomy and Histopathology .....	240
Bacteriology and Protozoology .....	170
Immunology .....	118
	<hr/>
	592
<b>Second half-year:</b>	
Preventive Medicine and Hygiene .....	16
Pharmacology .....	96
Materia Medica, etc. ....	32
General Medicine and Clinical Pathology .....	256
Neurology .....	16
Dermatology .....	16
General Surgery .....	128
Obstetrics .....	32
	<hr/>
	592
Homeopathic Materia Medica (elective) .....	32

## THIRD YEAR

<i>Subject</i>	<i>Total hours required</i>
First half-year:	
Preventive Medicine and Hygiene .....	16
Materia Medica, etc. ....	16
Therapeutics .....	48
General Medicine .....	128
Pediatrics .....	64
Neurology and Psychiatry .....	32
Legal Medicine .....	16
Dermatology .....	16
General Surgery .....	80
Ophthalmology .....	48
Obstetrics .....	80
Pathological Demonstrations .....	32
	<hr/> 576

<i>Subject</i>	<i>Total hours required</i>
Second half-year:	
Therapeutics .....	16
General Medicine .....	128
Pediatrics .....	32
Neurology and Psychiatry .....	64
Legal Medicine .....	16
Dermatology and Syphilis .....	32
General Surgery .....	128
Ophthalmology .....	16
Laryngology, etc. ....	32
Urology .....	16
Obstetrics .....	48
Gynecology .....	80
Pathological Demonstrations .....	32
	<hr/> 640

<b>FOURTH YEAR</b>	
<i>Subject</i>	<i>Total hours required</i>
<b>First half-year:</b>	
General Medicine .....	128
Pediatrics .....	54
General Surgery .....	176
Orthopedic Surgery .....	48
Urology .....	32
Laryngology, etc. ....	32
Gynecology .....	32
	<hr/>
	502
<b>Second half-year:</b>	
Electives .....	560

## DEPARTMENTS OF INSTRUCTION

### ANATOMY

HERBERT McLEAN EVANS, B.S., M.D., Professor of Anatomy.

ROBERT ORTON MOODY, B.S., M.D., Associate Professor of Anatomy.

GEORGE W. CORNER, A.B., M.D., Assistant Professor of Anatomy.

PHILIP E. SMITH, M.S., Ph.D., Instructor in Anatomy.

KATHERINE J. SCOTT, A.B., M.D., Instructor in Anatomy.

\*BENJAMIN H. PRATT, M.A., Assistant in Anatomy.

†ALFRED V. WEPFER, B.S., Assistant in Anatomy.

The courses of instruction in anatomy are given in Berkeley. The classes in gross anatomy are divided into small groups in order to avoid the inevitable noise and disturbance which result from a large group of students working together. Material for dissection is prepared in the embalming room, which is equipped with the necessary hydraulic apparatus to inject both the embalming fluids and the color masses for the arteries and veins in any desired pressure. After this process is completed the bodies are preserved in a carbolic solution.

The teaching museum consists of specially prepared corrosions, injections, dissections, and models.

The laboratory for microscopic anatomy is outfitted with microtomes and is supplied with all the stains and reagents necessary for the ordinary and finer methods of microscopic preparation.

The routine work of the department falls into the natural divisions of gross and microscopic anatomy, and some effort is made to have the transition between the two as gradual as possible. Inasmuch as the process of formal education must end sooner or later, the department endeavors as far as possible to make the students entirely independent. This is further encouraged in the elective system, by which a certain amount of selection is allowed in the regular work of the department.

### MICROSCOPIC ANATOMY

The various tissues and organs of the body are studied from the developmental point of view so that their gradual differentiation from the embryonic to the adult form is taken up. Since function and structure cannot be separated in the consideration of the microscopic appearance of tissues and organs, their chief physiological aspects are briefly considered. The study of each group consists of three main steps: (1) for the

\* In residence, first half-year.

† In residence, second half-year.

purpose of orientation, the consideration of their macroscopic appearances, relations, and physiology; (2) the transition from the macroscopic to the microscopic conditions is made with a dissecting microscope and teasing methods, free-hand or frozen sections; (3) the more detailed study is made from specimens prepared by methods designed to emphasize their principal microscopic features. In this course the value of comparing the organs of a series of animals is recognized and the student is given numerous comparative specimens.

**101. Histology and Microscopic Organology.**

Professor EVANS, Dr. SCOTT, and Mr. PRATT.

The course is given from the viewpoint of the activities of the living cell, the relation between structure and function being held uppermost. At the same time opportunity is afforded for a comprehensive review of human and comparative histology. Individual loan collections supplement the laboratory work.

First year, first half; 3 laboratory and 3 lecture periods a week. M W, 8-12; F, 8-11; S, 11-12. *192 hours—6 units.*

**102. General Human Anatomy.**

Associate Professor MOODY.

A study of the human body. Demonstrations and laboratory study of prepared human dissections, models and microscopic slides. For students of the Public Health and Physical Education departments. Other non-medical students may be admitted by arrangement with instructor if size of class permit. Prerequisite: Zoology 1A or Physiology 1.

Second half-year. Demonstrations Tu Th, 9; laboratory W, 1-4.

**103. Organs of Special Sense and Neurology.**

Dr. SMITH, Dr. SCOTT, and Mr. WEPFER.

In this course special attention is paid to the macroscopic and microscopic architecture of the central nervous system and the organs of special sense. The neuron studied in course 101 is used as the unit in the construction of the nervous system with a view of tracing origin, development, and final arrangement of the different pathways for nerve impulses. Considerable attention is given to a consideration of the growth and development of the nervous system.

First year, second half; 2 lectures and 1 laboratory period a week. F, 8-9 and 1-5. *80 hours—3 units.*

**105. Systematic Human Anatomy.**

Associate Professor MOODY, Assistant Professor CORNER,

Dr. SMITH, and Mr. PRATT.

The systematic dissection of the human body. For convenience the work is divided into thirds or "parts," to-wit: Head and Neck,

Arm and Thorax, Leg and Abdomen. To better facilitate instruction, students in the Medical School are required to finish each part in accordance with a prescribed time schedule.

First year, first half; Tu Th, 8-12; S, 8-11; M Tu W Th F, 1-5.

*496 hours—10 units.*

#### 108. Regional and Topographical Anatomy.

Associate Professor MOODY and Assistant Professor CORNER.

Living models, special dissections and sections of the body are used in this course to enable the student to become more familiar with structural relations and to assemble information obtained in preceding dissections. Students who are accepted for course 211 may substitute that course for this course.

Second year, first half. Section I, Tu, 8-9, F, 8-11; Section II, Tu, 9-10, W, 1-4.

*64 hours—3 units.*

#### 109. Anatomy for Physicians and Advanced Students.

Professor EVANS, Associate Professor MOODY, and Assistant Professor CORNER.

*Hours to be arranged to suit applicants.*

#### ELECTIVES

##### 209. Human Embryology.

Professor EVANS.

Opportunity is offered for the study of specific problems in human embryology. The collections of both human and comparative embryological material are constantly being augmented. The elective is offered only to students familiar with vertebrate embryology.

*Hours to be arranged.*

##### \*210. History of Anatomy.

Assistant Professor CORNER.

Informal conferences upon the history and literature of anatomy and its relation to the progress of general medical knowledge, illustrated by old books and figures. Limited to six students, one hour weekly.

First year, first half.

*Hours to be arranged.*

##### 211. Physiological Anatomy of Reproduction.

Assistant Professor CORNER.

Informal conferences and demonstrations. The oestrous cycle, implantation, comparative placentation, etc. Outside reading required.

1 hr. weekly.

*Hours to be arranged.*

##### 212. Experimental Embryology.

Dr. SMITH.

Conferences and original work by the experimental method chiefly with amphibian material on problems of developmental mechanics.

Second half-year.

*Hours to be arranged.*

---

\* Not to be given, 1917-18. This course will be given alternately with course 211.



**213. Original Investigation.**

Professor EVANS and other members of the staff.

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff. Time devoted by the majority of the second-year class to course 108 can be applied here by those specially qualified.

*Hours optional.*

**214. Seminar.**

Topics will be discussed by the staff and those electing the course.

For the year 1917-18 topics will be chosen from the field of human and comparative embryology.

*Hours to be arranged.*

**PHYSIOLOGY**

SAMUEL S. MAXWELL, Ph.D., Associate Professor of Physiology.

THEODORE C. BURNETT, M.D., Assistant Professor of Physiology.

ROSALIND WULZEN, Ph.D., Instructor in Physiology.

LILLIAN M. MOORE, M.S., Instructor in Physiology.

GEORGE H. MARTIN, A.B., Assistant in Physiology.

JOHN A. LARSON, A.B., Assistant in Physiology.

Physiology 104M is required. The remaining courses are open to those students who have the time and the preparation necessary to pursue them with profit.

The equipment in the Rudolph Spreckels Physiological Laboratory comprises, in addition to the apparatus and conveniences for the customary lines of work in mammalian physiology, facilities for research in general physiology and experimental biology. The department library contains complete sets of all the important physiological journals and the more important monographs on physiological and related subjects.

**104M. Physiology.**

Associate Professor MAXWELL and Assistant Professor BURNETT.

The physiology of nerve, muscle, central nervous system, sensation, circulation, respiration, and secretion. The lectures cover in a systematic way the general subject matter of the topics stated above. Laboratory experiments are so arranged that the most important

fundamental observations are repeated. Attention is given to technique as well as to results. Continual use of the reference library is insisted upon. In addition to the routine work required alike of all students, each member of the class is required to demonstrate some special piece of experimental work; the demonstration is accompanied by a paper by another student on the subject which the demonstration illustrates, and each of the two hands in a carefully prepared bibliography. Thus each student is responsible for one demonstration, one paper, and two bibliographies. First year, second half. Lectures and recitations, M Tu W Th S, 11-12, F, 10-11; laboratory, M Tu W Th S, 8-11.

*336 hours—10 units.*

#### ELECTIVES

##### 110. Experimental Biology.

Dr. WULZEN.

Special problems in cell physiology and the tropisms. Designed to give introductory training in methods of research. Open to properly qualified students.

*Hours and credits by arrangement.*

##### 111. Advanced Physiology.

THE STAFF.

Some simple piece of research is repeated and extended in connection with a study of the original literature on the subject. Open to a few suitably prepared students.

*Hours and credits to be arranged in advance.*

##### 212. Research in Physiology.

Associate Professor MAXWELL and Assistant Professor BURNETT.

*Hours and credits to be arranged.*

##### 214. Journal Club.

The Department Staff.

Discussion of important advances in physiology, reports of research in the department, and abstracts of current papers. Open only to advanced students who have a reading knowledge of French and German. Application for membership should be made to Professor Maxwell.

Second year, first half. Tu, 5.

*1 unit.*

#### BIOCHEMISTRY AND PHARMACOLOGY

T. BRAILSFORD ROBERTSON, Ph.D., Sc.D., Professor of Biochemistry.

HAROLD WASTENEYS, Ph.D., Associate Professor of Pharmacology.

\*CHARLES B. BENNETT, Ph.D., Instructor in Biochemistry.

EDWARD SIGFRID SUNDSTROM, M.D., Instructor in Biochemistry.

JOHN A. MARSHALL, M.S., Ph.D., D.D.S., Assistant in Pharmacology.

\* Absent on leave, first half-year, 1917-18.

The required courses are 101 and 102. The remaining courses are open to those students who have the time and the preparation necessary to pursue them with profit.

The equipment of the department affords ample opportunities for research. The types of investigation to which special attention has been given in recent years have been the following:

A. The physical chemistry of the proteins; particularly the physico-chemical behavior of protein solutions.

B. The analysis of blood-sera under varying physiological and pathological conditions; particularly the quantitative determination of the various protein fractions under conditions likely to be met with in clinical investigations or practice.

C. The kinetics of growth, particular attention having been paid to the study of the various substances which act as catalysors of the growth-process, and to the time relations of the growth of children and their relationship to environmental conditions.

In so far as the equipment and resources of the department admit, however, facilities are offered to any properly qualified person who desires to undertake a well-planned investigation in any field of biochemistry. Especial endeavor is made to provide every necessary facility for the carrying out of investigations having a bearing upon practical problems of medicine.

The joint library of the departments of Biochemistry and Physiology contains complete sets of all the important biochemical, pharmacological and physiological journals and the more important monographs on biochemical and related subjects.

#### **101M. Biochemistry.**

Professor ROBERTSON, Drs. BENNETT and SUNDSTROM.

In this course the foodstuffs are followed up from the moment that they are ingested to the moment when, after having circulated through the tissues and shared in their life, their final products are excreted from the body. The course may be considered as consisting of six parts, corresponding with various phases of the cycle of changes which the foodstuffs undergo. These divisions of the course are the following:

- (1) The foods; their properties, assimilation, and conversion into living matter or into reserve materials. The consideration of this phase of the subject takes the student to the point at which the foods have really become living matter or reserve materials. This leads naturally to the second part of the subject, namely:

- (2) The manner in which the physical and chemical properties of the foods determine the properties of living protoplasm.
- (3) The correlation of the different activities of the tissues in so far as this is brought about by chemical agents which are distributed through the agency of the circulation.
- (4) The chemical phenomena which accompany or underlie the performance of function by living tissues.
- (5) The waste products, their chemical nature, their derivation, and, to some extent, the method of excretion.
- (6) Regarding the entire body as a chemical machine, the efficiency of this machine is discussed and the relationship between the work it can perform and the nature of the fuel with which it is supplied.

First year, second half. Lectures, M Tu W Th, 1-2, F, 10-11; laboratory, M Tu W Th, 2-5. *272 hours—9 units.*

#### 102M. Pharmacology.

Associate Professor WASTENEYS and Dr. MARSHALL.

The physiological action of drugs, with illustrations derived from their therapeutic application; experiments and demonstrations.

Second year, second half. M W, 3-4, F, 1-5. *96 hours—3 units.*

#### ELECTIVES

#### 110. Advanced Chemical Biology.

Professor ROBERTSON.

Special topics may be selected by the student in conference with Professor Robertson.

*Credit not to exceed 4 units.*

#### 111. Problems in Metabolism.

Dr. SUNDESTROEM.

First half-year. Lectures, M W, 1-2; laboratory, M W, 2-5.

*4 units.*

#### 210. Research in Biochemistry.

Professor ROBERTSON.

Open to qualified students who have the necessary time at their disposal. The subject and the time to be devoted to it to be arranged in conference with Professor Robertson.

#### 211. Research in Pharmacology.

Associate Professor WASTENEYS.

Open to qualified students who have the necessary time at their disposal. The subject and the time to be devoted to it to be arranged in conference with Professor Wasteneys.

**PATHOLOGY AND BACTERIOLOGY**

FREDERICK P. GAY, A.B., M.D., Professor of Pathology.

GLANVILLE Y. RUSK, A.B., M.D., Associate Professor of Pathology.

JEAN V. COOKE, A.B., M.D., Assistant Professor of Pathology.

IVAN C. HALL, M.S., Assistant Professor of Bacteriology.

WILLIAM H. BARNES, A.B., Instructor in Bacteriology.

DOLORES E. BRADLEY, M.A., Assistant in Bacteriology.

— — —, Assistant in Pathology.

RUTH L. STONE, M.S., Edith Claypole Research Assistant in Pathology.

CARL L. A. SCHMIDT, Ph.D., Research Assistant in Pathology.

Instruction in pathology and bacteriology is given in the Hearst Laboratory of Pathology and Bacteriology, in Berkeley during the second year and at the University Hospital and the San Francisco Hospital during the third and fourth years.

The course in pathology aims to outline the natural history of disease. The instruction is for convenience divided into four correlated courses dealing with causation, progress, and effect.

**SECOND YEAR**

**101. Medical Bacteriology and Protozoology.**

Assistant Professor HALL, Mr. BARNES, and Miss BRADLEY.

History of bacteriology; morphology, classification, ecology and metabolism of micro-organisms; sterilization; preparation of culture media; microscopic examination, cultivation, and identification of bacteria; systematic study of pathogenic micro-organisms.

First half-year. M Tu Th F, lecture, 1-2; laboratory, 2-5.

*170 hours—4 units.*

**102. Infection and Immunity: Lectures.**

Professor GAY.

Accessible aspects of functional pathology; evolution of infectious diseases of the body and the mechanism of animal defense; principles of immunology and their applicability in prophylaxis, diagnosis and specific therapy.

First half-year. M W, 11-12.

*32 hours—2 units.*

**103. Infection and Immunity: Laboratory.**

Professor GAY and Mr. BARNES.

Experimental methods: demonstrations.

First half-year. M Tu Th F, 4-5.

*86 hours—1 unit.*

**104. Morbid Anatomy and Histopathology.**

Associate Professor RUSK and — — —.

Changes in organs and tissues in disease in the animal and human body; macroscopic lesions illustrated by fresh material from autopsies and museum specimens. Lectures, conferences, and practice.

First half-year; M W Th S, 8-11.

240 hours—6 units.

**THIRD YEAR****105. Autopsy Course.**

Assistant Professor COOKE.

Post-mortem examinations at the University of California Hospital and the San Francisco Hospital.

First and second half-years.

64 hours.

**ELECTIVES****201. Research: Problems of Infection and Immunity.** Professor GAY.*Hours and units to be arranged.***202. Research: Neuropathology.**

Associate Professor RUSK.

*Hours and units to be arranged.***203. Research: Bacteriology and Protozoology.**

Assistant Professor HALL.

The investigation of concrete problems suggested by the work in medical bacteriology.

*Hours and units to be arranged.***204. Advanced Morbid Anatomy and Histopathology.**

Assistant Professor COOKE.

Autopsy technic and the working up of tissues and cultures resulting from post-mortem examination. Elective for fourth-year and for graduate students in medicine.

University Hospital.

*Hours and units to be arranged.***205. Experimental Pathology.**

Associate Professor RUSK and Dr. — — —.

Experiments illustrating functional changes as evidenced by chemical and physiological methods and tissue alterations; results demonstrated in course 104; special problems; open to qualified students and graduates by special arrangement.

**206. Immunochemistry. Seminar.**

**Dr. SCHMIDT.**

Consideration and discussion of the physical-chemical aspects of the subject of immunity. Informal discussion and presentation of current problems. 1 unit.

First half-year.

*Time to be arranged.*

**PREVENTIVE MEDICINE AND HYGIENE**

**WILBUR A. SAWYER, A.B., M.D.,** Clinical Professor of Preventive Medicine and Hygiene.

— — —, Assistant Clinical Professor of Preventive Medicine and Hygiene.

**JOHN N. FORCE, Gr.P.H., M.S., M.D.,** Lecturer in Preventive Medicine and Hygiene.

**WILLIAM C. HASSLER, Ph.G., M.D.,** Lecturer in Preventive Medicine and Hygiene.

**CHESTER G. GILLESPIE, C.E.,** Lecturer in Preventive Medicine and Hygiene.

Lectures on the epidemiology and control of communicable diseases, the sanitation of water, milk and food supplies, sewage disposal, vital statistics, occupational diseases, public and personal hygiene, and public health administration.

**SECOND YEAR**

**101A. Lectures.**

Professor SAWYER, Assistant Professor — — —, Drs. FORCE, HASSLER, and Mr. GILLESPIE.

Second half-year, once a week.

*16 hours.*

**THIRD YEAR**

**101B. Lectures.**

A continuation of 101A.

First half-year, once a week.

*16 hours.*

For electives in this department see page 85.

**MATERIA MEDICA AND THERAPEUTICS**

**EUGENE S. KILGORE, B.S., M.D.,** Assistant Clinical Professor of Medicine.

**ALBERT SCHNEIDER, Ph.D., M.D.,** Instructor in Materia Medica.

**RENE BINE, M.D.,** Assistant in Medicine.

The work of this department is preceded by the courses in pharmacology and in infection and immunity, both of which furnish the student with fundamental ideas relating to preventive and curative medicine.

*Second Year.*—In the second half the course in materia medica consists of lectures, demonstrations and recitations on the sources, methods of preparation, and uses of drugs and biologic products, prescription writing, government control of drugs, etc.

*Third Year.*—In the first half the course in materia medica is completed and the course in therapeutics begun. The latter consists of lectures, recitations, demonstrations, and practical exercises. By the use of material in the wards and of case-histories stress is laid upon the application of therapeutic principles. Students are required to write specific directions for patients and for nurses and to execute many of the orders themselves. Comparatively few drugs are used. These occupy an important but by no means exclusive place in the teaching; and the primary emphasis is placed rather upon the other essentials of good treatment, such as regulation of diet, nursing, living conditions, and the securing of favorable mental attitude on the part of patients. Attention is given to biologic methods, to hydrotherapy, massage and other physical measures. Each student reports upon some therapeutic topic, either from a review of current literature or from personal observations in the wards; and one of the important objects of these reports is to reveal the conflicting state of therapeutic opinion and to impress upon students the necessity for conservatism in judging therapeutic claims.

#### SECOND YEAR

- 101A. **Lectures and Demonstrations in Materia Medica.** Dr. SCHNEIDER.  
Second half-year, twice a week. 32 hours.

#### THIRD YEAR

- 101B. **Lectures and Demonstrations in Materia Medica.** Dr. SCHNEIDER.  
A continuation of course 101.  
First half-year, once a week. 16 hours.

- 102A-102B. **Lectures and Recitations in Therapeutics.**  
Assistant Professor KILGORE and Dr. BINE.  
First half-year, three times a week; second half-year, once a week. 64 hours.



**MEDICINE\***

HERBERT C. MOFFITT, B.S., M.D., Professor of Medicine.

WILLIAM BOERICKE, M.D., Clinical Professor of Homeopathic Materia Medica.

SUMNER A. HILL, M.D., Clinical Professor of Applied Homeopathic Therapeutics.

GEORGE H. EVANS, M.D., Assistant Clinical Professor of Medicine.

HERBERT W. ALLEN, B.S., M.D., Assistant Clinical Professor of Medicine.

GEORGE E. EBRIGHT, M.D., Assistant Clinical Professor of Medicine.

EUGENE S. KILGORE, B.S., M.D., Assistant Clinical Professor of Medicine.

JAMES L. WHITNEY, A.B., M.D., Assistant Clinical Professor of Medicine.

LEWIS S. MACE, A.B., M.D., Instructor in Medicine.

LEROY H. BRIGGS, M.D., Instructor in Medicine.

JULE B. FRANKENHEIMER, B.S., M.D., Instructor in Medicine.

SAMUEL H. HURWITZ, A.M., M.D., Instructor in Medicine.

ELDRIDGE J. BEST, B.S., M.D., Instructor in Medicine.

HANS LISSER, A.B., M.D., Instructor in Medicine.

ERNEST H. FALCONER, C.M., M.D., Instructor in Medicine.

LOVELL LANGSTROTH, A.B., M.D., Instructor in Medicine.

RENE BINE, M.D., Assistant in Medicine.

ESTHER ROSENCRANTZ, A.B., M.D., Assistant in Medicine.

JOHN M. REHFISCH, A.M., M.D., Assistant in Medicine.

ROBERT R. NEWELL, M.D., Assistant in Medicine.

— — —, Assistant in Medicine.

Instruction is given both at the University Hospital and at the San Francisco Hospital.

*Second Year.*—Students begin their work in this department at the University Hospital during the second half of the second year. Two general introductory courses bridge the gap between the fundamental sciences and clinical medicine. Stress is laid upon instruction in history taking and physical diagnosis, and an endeavor is made to drill the student thoroughly at the very beginning in what may be termed a standard medical technic. This uniform technic in history taking, in recording physical and laboratory examinations, will be applied in all the student's later dispensary and ward exercises and will be carried even further into his work as clinical clerk and intern.

Laboratory work is given in the laboratory belonging to the department at the Medical School. Students are taught to make chemical and microscopical examinations of blood, urine, sputum, stomach contents, feces, and of ascitic, pleural, and cerebrospinal fluids. Great stress will

---

\* The Department of Medicine includes Neurology and Dermatology.

be laid upon the efficient performance of the various examinations by the individual student.

The elective course in Homeopathy covers by lectures, recitations and demonstrations the essential characteristics of drugs; their sources; preparations; and range of physiologic and therapeutic action according to the Law of Similars.

*Third Year.*—Throughout the year clinical lectures and demonstrations will be given the entire class twice a week. During the first half-year clinical exercises in small sections will be given at the University Hospital and during the second half-year at the San Francisco Hospital.

Throughout the year clinical lectures and demonstrations in Applied Homeopathy and its scientific treatment of disease will be given twice a week. Clinical exercises in Applied Homeopathic Therapeutics and repertory methods will be given at the San Francisco Hospital.

*Fourth Year.*—During the first half-year clinical ward work is continued at the San Francisco Hospital and clinical work in the tuberculosis wards is begun. Ward work is given to small sections at the University Hospital. In the second half of the fourth year elective work is offered both at the University and San Francisco hospitals.

A duplication of the above in the Homeopathic course is also offered.

#### SECOND YEAR

##### 101. Propedeutics of Medicine.

Professor MOFFITT and Assistant Professor ALLEN.

Second half-year, once a week.

16 hours.

##### 102. Physical Diagnosis and History Taking.

Assistant Professor KILGORE and THE STAFF.

Second half-year.

Each student, 128 hours.

##### 103. Clinical Physiology.

Assistant Professor KILGORE.

Second half-year, once a week.

16 hours.

##### 104. Clinical Pathology.

Dr. HURWITZ.

Second half-year, twice a week.

96 hours.

##### A. Homeopathic Materia Medica. Professor BOERICKE and Dr. BROOKS.

Second half-year, twice a week.

*Elective.*

**THIRD YEAR**

- 105A-105B. **Clinical Medicine.** Professor MOFFITT.  
First and second half-years, twice a week. 64 hours.
106. **Section Work at University Hospital.**  
Assistant Professor KILGORE and STAFF.  
First half-year. Each student, 96 hours.
107. **Section Work at San Francisco Hospital.**  
Assistant Professor EBRIGHT and Dr. BRIGGS.  
Second half-year. Each student, 96 hours.
- B. **Applied Homeopathy.** Professor HILL.  
First and second half-year, twice a week. Elective.
- C. **Section Work (S. F. H.).** Professor HILL and — — —.  
Applied Homeopathy.  
First and second half-year. Elective.

**FOURTH YEAR**

108. **Clinical Lectures and Demonstrations.**  
Assistant Professor EBRIGHT.  
First half-year (S. F. H.), twice a week. 32 hours.
109. **Section Work at San Francisco Hospital.**  
Assistant Professors EVANS and EBRIGHT, Drs. BRIGGS and MACE.  
First half-year. Each student, 48 hours.
110. **Ward Work at University Hospital.** Dr. WHITNEY.  
First half-year. Each student, 48 hours.
- D. **Section Work (S. F. H.).** Professor HILL and — — —.  
Applied Homeopathy.  
First half-year. Elective.
- For electives in this department see pages 85-87.

**RESEARCH MEDICINE**

**THE GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH**

GEORGE H. WHIPPLE, A.B., M.D., Professor of Research Medicine.  
ERNEST L. WALKER, B.A.S., D.S., Associate Professor of Tropical Medicine.  
KARL F. MEYER, A.B., D.V.M., Associate Professor of Tropical Medicine.  
CHARLES W. HOOPER, A.B., M.D., Assistant Professor in Research Medicine.  
ALICE RODRIGUEZ, B.S., M.D., Assistant Professor in Research Medicine.  
WALTER C. ALVAREZ, M.D., Instructor in Research Medicine.

WILLIAM J. KERR, B.S., M.D., Fellow in Research Medicine.  
MARJORIE G. FOSTER, M.A., Fellow in Research Medicine.  
JOSEPH WEBB, A.B., M.D., Fellow in Research Medicine.  
MARGARET BEATTIE, M. A., Fellow in Research Medicine.  
FRIEDA S. ROBSCHKEIT, Fellow in Research Medicine.  
ARTHUR E. BELT, A.B., Student Fellow in Research Medicine.  
CHARLES C. HALL, A.B., Student Fellow in Research Medicine.  
HARRY P. SMITH, A.B., Student Fellow in Research Medicine.

Facilities for work in Research Medicine are available during the entire year for those who have had the necessary training. The experimental work is open to students of the second, third, and fourth years of the Medical School, as well as graduates in medicine and advanced students who have had proper training.

The fundamental value of such work for the student lies in the training in the *method of research*. In this manner the student is given an opportunity to help in working out some small research problem and an insight into medical research can be gained in no other way.

Candidates for elective work in the Research Laboratory are expected to devote at least the time equivalent to a double course in this subject.

#### 201. Experimental Medicine.

Professor WHIPPLE and Assistant Professor HOOPER.

Students who have had sufficient training will be given opportunity to work on some problem related to the research work of the laboratory staff. This work will be carried on under the personal supervision of the members of the laboratory staff and the student in reality will be treated as a voluntary assistant in Research Medicine.

*Hours to be arranged.*

#### 202. Research in Tropical Medicine.

Associate Professors WALKER and MEYER.

Problems in protozoology, bacteriology, zoology, and immunity.

*Hours to be arranged.*

#### 203. Research on Applied Clinical Bacteriology and Immunology.

Associate Professor MEYER.

This course is open to students or graduates who have taken Pathology 101 and 102 or equivalent.

*Hours to be arranged.*

**204. Clinical Chemical Methods.**

Assistant Professor RHODE.

Laboratory training is offered in some of the more important quantitative methods available for clinical and experimental studies in metabolism.  
*Hours to be arranged.*

**205. Research in Biological Chemistry.**

Assistant Professor RHODE.

Experiments may be conducted on animals to study biochemical relations and functional significance of various solid and gaseous constituents of blood under normal and pathological conditions.  
*Hours to be arranged.*

**CLINICAL NEUROLOGY AND PSYCHIATRY**

MILTON B. LENNON, A.B., M.D., Assistant Clinical Professor of Neurology.

ROBERT L. RICHARDS, A.B., M.D., Lecturer in Psychiatry.

V. H. PODSTAT, M.D., Lecturer in Psychiatry.

RICHARD W. HARVEY, M.S., M.D., Instructor in Neurology.

EVA C. REID, M.D., Assistant in Psychiatry.

CHARLES L. TRANTER, B.S., M.D., Assistant in Neurology.

HAROLD W. WRIGHT, M.D., Assistant in Neurology.

The general plan of instruction in neurology follows the usual evolution of student teaching. The purely academic knowledge gained in the first year is gradually animated by clinical life and in the student there is developed the capacity to elicit symptoms, to measure their value and to draw logical conclusions from them.

Ample material is supplied for this course by the wards of the University Hospital, the University wards of the San Francisco Hospital, and particularly at the nerve clinic, to which over 6500 visits have been paid in the past year.

*Second Year.*—In the second half of the second year the knowledge of anatomy and physiology taught in the first half-year will be applied to clinical cases. The methods of history taking, of making routine neurologic examinations, and the main facts of general neurology will find their special place in this course.

*Third Year.*—Throughout this year there will be a systematic course in special neurology, which will be illustrated with an abundance of clinical material. In the second half-year students are assigned to cases and every opportunity is given for thorough work. In this year a systematic course of lectures on the more important mental diseases is also given.

*Fourth Year.*—Work in this department is elective.

## SECOND YEAR

101. **Elementary Clinical Neurology.**

Second half-year, once a week.

Dr. HARVEY.

16 hours.

## THIRD YEAR

102A-102B. **Lectures and Demonstrations in Clinical Neurology.**

Dr. LENNON.

First and second half-years, once a week.

32 hours.

103A-103B. **Clinical Lectures in Psychiatry.**

Drs. RICHARDS and PODSTAT.

First and second half-years, once a week.

32 hours.

104. **Section Work.**

Drs. LENNON and HARVEY.

Second half-year.

*Each student, 32 hours.*

For electives in this department see page 87.

## DERMATOLOGY AND SYPHILOLOGY

HOWARD MORROW, M.D., Clinical Professor of Dermatology.

L. S. SCHMITT, B.S., M.D., Assistant Clinical Professor of Syphilology.

A. W. LEE, M.D., Instructor in Dermatology.

BERTRAM STONE, M.D., Assistant in Dermatology.

Instruction in this department is carried on during the last half of the second year and throughout the third year.

*Second Year.*—In the second half of this year a course in clinical lectures and demonstrations is intended to teach the student to observe objective symptoms and describe them correctly. The common diseases of the skin will be demonstrated.

*Third Year.*—Throughout this year a systematic course will cover the histopathology, diagnosis, and treatment of diseases of the skin. Students are taken to the Isolation Hospital, where leprosy and the exanthemata are demonstrated.

In the second half of this year a course of lectures and recitations will cover syphilis in all its phases. The clinical and laboratory procedures used in its diagnosis will also be discussed.

*Fourth Year.*—In the second half-year work in this department is elective.

**SECOND YEAR**

- 101. Clinical Lectures and Recitations.** Professor MORROW.  
Second half-year, once a week. 16 hours.

**THIRD YEAR**

- 102A-102B. Clinical Lectures and Demonstrations.** Professor MORROW.  
First and second half-years, once a week. 32 hours.

- 103. Syphilology; Lectures and Recitations.**  
Assistant Professor SCHMITT.  
Second half-year, once a week. 16 hours.  
For electives in this department see page 87.

**LEGAL MEDICINE**

A. A. D'ANCONA, A.B., M.D., Lecturer in Forensic Medicine.

*Third Year.*—In this department students receive instruction in the legal aspects of medicine. In general the course covers the following subjects: (1) technique of medico-legal post-mortem examinations; (2) toxicology from the chemical and legal points of view; (3) biological aspects; (4) legal regulation of medical practice, rules of evidence, etc. In order to set forth the various points of view of this subject, this course is given by several lecturers.

**THIRD YEAR**

- 101A-101B. Lectures.**  
First and second half-years, once a week. 32 hours.

**PEDIATRICS**

WILLIAM PALMER LUCAS, A.B., M.D., Professor of Pediatrics.  
RACHEL L. ASH, B.S., M.D., Instructor in Pediatrics.  
OLGA BRIDGMAN, Ph.D., M.D., Instructor in Pediatrics.  
VIVIA BELLE APPLETON, A.B., M.D., Instructor in Pediatrics.  
E. CHARLES FLEISCHNER, M.D., Instructor in Pediatrics.  
LOUISE MORROW, A.B., M.D., Head of Social Service Department and  
Lecturer in Medical Social Economics.  
ETHEL M. WATTERS, A.B., M.D., Assistant in Pediatrics.  
MABEL F. GIFFORD, Assistant in Pediatrics, in charge of Speech Defect  
Clinic.

HUGH K. BERKLEY, M.D., Assistant in Pediatrics.

ALFRED E. MEYERS, A.B., M.D., Assistant in Pediatrics.

ADOLPH G. SCHNACK, A.M., M.D., Assistant in Pediatrics.

WILLIAM A. WOOD, M.D., Assistant in Pediatrics.

SHERMAN A. WHITE, D.D.S., Voluntary Assistant in Pediatrics.

The work in this department extends throughout the third year and the first half of the fourth year. The course consists of lectures, clinical exercises, and laboratory work.

The teaching material of the department is drawn from the following sources:

(1) The nursery and children's wards of the University Hospital, which give opportunities for studying normal breast feeding, the problems entering into the first two weeks of life and the diseases of infancy and childhood admitted into the general children's wards. (2) The Out-Patient Department of the University Hospital offers special opportunities for following normal feeding cases in the special feeding clinic and various ambulatory diseases of infancy and childhood only to be found in a large children's clinic. (The Children's Out-Patient Department had a total of 10,349 visits during the last year, which gave a large amount of most interesting material.) Home visits are made where the home conditions are of importance or the patient's condition indicates it. (3) The medical wards of the Children's Hospital. (4) The children's ward of the San Francisco Hospital during ten weeks of the first half-year. (5) The Isolation Hospital, where every variety of contagious disease can be demonstrated. (6) Those desiring and qualified can take special work at various institutions, such as the Juvenile Court, the State Home for Feeble Minded at Eldridge, and other institutions doing child-welfare work.

During the year a series of lectures will be given on subjects closely related to pediatrics and child-welfare work by specialists in their particular fields.

*Third Year.*—The work is divided into lectures and clinical exercises dealing with prenatal studies, normal development of the infant, normal breast feeding, substitute feeding, the physiology and metabolism of infancy and childhood. The various diseases of infancy and childhood are demonstrated as far as the clinical material will permit. Laboratory exercises relating to physiology and digestion and preparation of milk formulas are taken up, either during the required or elective courses. Especial attention is given to the psychological, sociological, and preventive problems of infancy and childhood. The problems of the defective, delinquent, and psychopathic child and of adolescence are studied



in conjunction with the departments of Psychology and Social Economics. Through close co-operation with these departments special lines of work are offered both in psychology and social economics. These departments furnish lecturers and assistants on special topics relating to childhood. Through co-operation with child-welfare institutions of the state and city opportunity to study these institutions is given.

*Fourth Year.*—During the first half-year classes are divided into small sections for work in the Out-Patient Department and wards of the University Hospital, Children's Hospital, and in the San Francisco Hospital during the ten weeks of pediatric service. During the last half-year work in this department is elective.

### THIRD YEAR

**101. Lectures, Recitations, Laboratory Work, and Clinical Demonstrations.**

Professor LUCAS and Staff.

First half-year, twice a week.

64 hours.

**102. Section Work.**

Professor LUCAS and Staff.

Second half-year.

Each student, 32 hours.

### FOURTH YEAR

**103. Ward Work.**

Professor LUCAS and Staff.

First half-year.

Each student, 54 hours.

For electives in this department see page 88.

### SURGERY\*

WALLACE I. TERRY, B.S., M.D., Professor of Surgery.

HAROLD BRUNN, M.D., Assistant Clinical Professor of Surgery.

SAXTON T. POPE, M.D., Assistant Clinical Professor of Surgery.

HOWARD C. NAFFZIGER, M.S., M.D., Instructor in Surgery.

HERBERT S. THOMSON, B.S., M.D., Instructor in Surgery.

LOUIS P. HOWE, M.D., Instructor in Surgery.

ALANSON WEEKS, M.D., Instructor in Surgery.

FAYETTE W. BIRTCH, A.B., M.D., Instructor in Surgery.

EDWIN I. BARTLETT, A.B., M.D., Instructor in Surgery.

DUDLEY TAIT, B.S., M.D., Assistant in Surgery.

MARY E. BOTSFORD, M.D., Assistant in Surgery.

CARL L. HOAG, M.S., M.D., Assistant in Surgery.

\* The Department of Surgery includes Orthopedic Surgery. Urology, Laryngology, Ophthalmology and Roentgenology.

EDNA L. BARNEY, M.S., M.D., Assistant in Surgery.

JOHN H. WOOLSEY, M.S., M.D., Assistant in Surgery.

ROBERT S. SHERMAN, M.S., M.D., Assistant in Surgery.

— — —, Assistant in Surgery.

CLARENCE A. WILLS, M.D., Voluntary Assistant in Surgery.

*Second Year.*—Instruction in surgery begins in the second half of the second year. This part of the course is aimed to give the student a broad view of the subject, to instill principles of surgical technic and to establish a foundation by means of a course in surgical pathology. The work of this half-year is carried on at the University Hospital and in the Out-Patient Department.

*Third Year.*—During this year systematic courses of lectures and recitations are begun. In the second half-year there are lectures and demonstrations in the physiology of respiration and circulation as related to surgery, the study of shock, and the effect of anaesthetics. At the San Francisco Hospital a conference course is carried on, in which the etiology, diagnosis, prognosis, pathology and treatment of surgical cases are discussed. The class is also divided into sections for work at the University and San Francisco hospitals.

*Fourth Year.*—During the first half of the fourth year the systematic lectures in surgery are continued, as well as the clinical work at the San Francisco Hospital. In addition students will act as ward clerks in the wards of the University and San Francisco hospitals. The work of the second half of the fourth year is elective.

#### SECOND YEAR

##### 101. Elementary Surgery: Lectures, Demonstrations, and Recitations.

Professor TERRY.

Second half-year, once a week.

32 hours.

##### 102. Surgical Technic.

Assistant Professor POPE.

Second half-year, once a week.

16 hours.

##### 103. Surgical Pathology.

DR. BARTLETT.

Second half-year, twice a week.

48 hours.

##### 104. Section Work.

THE STAFF.

Second half-year.

Each student, 32 hours.

#### THIRD YEAR

##### 105. Surgical Lectures, Demonstrations, and Recitations.

Professor TERRY.

Second half-year, once a week.

32 hours.

## *Plan of Instruction and Announcement of Courses* 77

106. **Surgical Physiology.** Assistant Professor POPE.  
Second half-year, once a week. 16 hours.
- 107A-107B. **Surgical Recitations.**  
Assistant Professor POPE and Dr. NAFFZIGER.  
First and second half-years, once a week. 32 hours.
- 108A. **Section Work at University Hospital.** THE STAFF.  
First half-year. Each student, 64 hours.
- 108B. **Section Work at San Francisco Hospital.**  
Assistant Professor BRUNN, Drs. NAFFZIGER and HOWE.  
Second half-year. Each student, 64 hours.

### FOURTH YEAR

111. **Surgical Lectures, Demonstrations, and Recitations.** Professor TERRY.  
A continuation of course 105.  
First half-year, twice a week. 32 hours.
110. **Clinical Demonstrations.** Assistant Professor BRUNN.  
First half-year (S. F. H.), twice a week. 32 hours.
111. **Section Work.**  
Assistant Professor BRUNN, Drs. NAFFZIGER and HOWE.  
First half-year (S. F. H.). Each student, 48 hours.
113. **Surgical Wards.** Dr. BIRCH.  
First half-year (U. C. H.). Each student, 48 hours.  
For electives in this department see pages 88 and 89.

### ORTHOPEDIC SURGERY

WALTER I. BALDWIN, B.S., M.D., Instructor in Orthopedic Surgery, *in charge*.  
HOWARD H. MARKEL, A.B., M.D., Assistant in Orthopedic Surgery.  
ARTHUR L. FISCHER, A.B., M.D., Assistant in Orthopedic Surgery.  
— — —, M.D., Assistant in Orthopedic Surgery.  
FREDERICK H. ZUMWALD, M.D., Voluntary Assistant in Orthopedic Surgery.

*Fourth Year.*—The required work in this department is given in the first half of the fourth year. The work of the second half of the fourth year is elective. Instruction consists of lectures, clinical demonstrations, and section work in the wards and Out-Patient Department of the University Hospital and in the Children's Hospital.

### FOURTH YEAR

101. **Lectures and Clinical Demonstrations.** Dr. BALDWIN  
First half-year, once a week. 16 hours.

**102. Section Work.**

Drs. BALDWIN, MARKEL, and FISHER.

First half-year.

*Each student, 32 hours.*

For electives in this department see page 89.

**LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY****ALBERT J. HOUSTON, B.L., M.D.,** Assistant Clinical Professor of Laryngology, Otology and Rhinology.**FREDERICK C. LEWITT, B.S., M.D.,** Instructor in Laryngology, Otology and Rhinology.**ABEL W. JOHNSON, A.M., M.D.,** Instructor in Laryngology, Otology and Rhinology.**HANS B. CHRISTIANSEN, M.D.,** Assistant in Laryngology, Otology and Rhinology.**JEROME B. THOMAS, A.B., M.D.,** Assistant in Laryngology, Otology and Rhinology.**HENRY HORN, M.D.,** Assistant in Laryngology, Otology and Rhinology.**CONSTANTINE R. BRICCA, A.B., M.D.,** Assistant in Laryngology, Otology and Rhinology.**FRANCIS M. SHOOK, M.D.,** Voluntary Assistant in Laryngology, Otology and Rhinology.

The required work of this department is given in the third year and in the first half of the fourth year.

*Third Year.*—During the second half-year the major portion of this work is practical and is carried on in association with regular clinics in the Out-Patient Department of the University Hospital. The use of the various instruments is also taught.

*Fourth Year.*—During the first half-year students are assigned to the clinic in small sections. The work in the second half of the fourth year is elective.

**THIRD YEAR****101. Section Work.**

Assistant Professor HOUSTON.

Second half-year.

*Each student, 32 hours.***FOURTH YEAR****102. Section Work.**

Assistant Professor HOUSTON.

First half-year.

*Each student, 32 hours.*

For electives in this department see page 89.

### OPHTHALMOLOGY

WALTER SCOTT FRANKLIN, M.D., Assistant Clinical Professor of Ophthalmology.

WILLIAM F. BLAKE, A.B., M.D., Instructor in Ophthalmology.

EDWARD F. GLASER, M.D., Instructor in Ophthalmology.

— — —, M.D., Assistant in Ophthalmology.

Instruction is given in this department throughout the third year.

*Third Year.*—Throughout this year a systematic course of lectures and recitations is given, covering the more common diseases of the lids and globes. In the first half of this year the class is divided into sections for work in the Out-Patient Department.

*Fourth Year.*—Work in this department in the second half of the fourth year is elective.

#### THIRD YEAR

101A—101B. **Lectures and Recitations.** Assistant Professor FRANKLIN.

First and second half-years, once a week. *32 hours.*

102. **Section Work** Assistant Professor FRANKLIN and Dr. GLASER.

First half-year. *Each student, 32 hours.*

For electives in this department see page 89.

### UROLOGY

FRANK HINMAN, A.B., M.D., Instructor in Urology, *in charge.*

WILLIAM P. WILLARD, M.D., Instructor in Urology.

JOHN VAUGHAN LEONARD, M.D., Instructor in Urology.

LIONEL P. PLAYER, M.D., Instructor in Urology.

— — —, Assistant in Urology.

HARRY PARTRIDGE, M.D., Voluntary Assistant in Urology.

HUDSON SMYTHE, M.D., Voluntary Assistant in Urology.

Instruction in this department is given in the last half of the third year and in the first half of the fourth year, and consists of lectures, recitations, and instruction in the Out-Patient Department.

*Third Year.*—During the last half of the year a course of lectures and recitations deals with the anatomy, physiology and pathology of the genito-urinary tract.

*Fourth Year.*—During the first half-year students will serve as assistants in the Out-Patient Department.

The work of the last half-year is elective.

**THIRD YEAR****101. Lectures and Recitations in Urology.****Dr. HINMAN.**

Second half-year, once a week.

*16 hours.***FOURTH YEAR****102. Section Work.****THE STAFF.**

First half-year.

*Each student, 32 hours.*

For electives in this department see page 89.

**ROENTGENOLOGY****HOWARD E. RUGGLES, A.B., M.D.,** Assistant Clinical Professor of Roentgenology.**LLOYD BRYAN, B.S., M.D.,** Assistant in Roentgenology.

The required work in this department is given in the first half of the fourth year and consists of lectures and demonstration of plates.

**FOURTH YEAR****101. Lectures and Demonstrations.** Assistant Professor **RUGGLES.**

First half-year, once a week.

*16 hours.*

For electives in this department see page 89.

**OBSTETRICS AND GYNECOLOGY****FRANK W. LYNCH, A.B., M.D.,** Professor of Obstetrics and Gynecology.**R. KNIGHT SMITH, M.D.,** Assistant Clinical Professor of Obstetrics.**J. CRAIG NEEL, Ph.B., M.D.,** Instructor in Obstetrics and Gynecology.**WILLIAM G. MOORE, M.D.,** Instructor in Obstetrics and Gynecology.**LOUIS I. BREITSTEIN, B.S., M.D.,** Instructor in Obstetrics and Gynecology.

— — —, Instructor in Obstetrics and Gynecology.

**ALICE F. MAXWELL, B.S., M.D.,** Assistant in Obstetrics and Gynecology.**MARGARET SCHULZE, M.S., M.D.,** Assistant in Obstetrics and Gynecology.

Instruction in this department is given to students of the second, third, and fourth years. The work of the second and third years and first half of the fourth year is obligatory. The required courses include lectures, recitations, laboratory demonstrations, and practical work in the wards and Out-Patient Department in obstetrics and gynecology. Each student must attend at least twelve cases of confinement.

*Second Year.*—The work of the second year is introductory and includes the study of the normal anatomy and physiology of the female generative organs.

*Third Year.*—Normal pregnancy, labor, and the puerperium are considered during the first half of the third year, following which the courses deal on one hand with obstetrical complications and on the other hand with gynecological diseases.

The woman's clinic of the University Hospital has fifty beds for obstetric and gynecologic patients and thus offers a splendid opportunity for combining clinical instruction in these subjects and for demonstrating the close relationship which exists between them. Other clinical opportunities are afforded by the obstetrical and gynecological service at the San Francisco Hospital.

*Fourth Year.*—The work of the second half of the fourth year is elective.

#### SECOND YEAR

101. **Introductory Lectures.** Professor LYNCH.  
Second half-year, twice a week. 32 hours.

#### THIRD YEAR

- 102A-102B. **Lectures and Recitations in Obstetrics.**  
Professors LYNCH and SMITH, Drs. NEEL and BREITSTEIN.  
First half-year, five times a week. 80 hours.  
Second half-year, twice a week. 48 hours.
103. **Gynecological Pathology.** Dr. NEEL.  
Second half-year, once a week. 32 hours.
104. **Lectures and Recitations in Gynecology.**  
Professor LYNCH, Drs. NEEL and MOORE.  
Second half-year, three times a week. 48 hours.

#### FOURTH YEAR

109. **Section Work in Gynecology.** Dr. NEEL.  
First half-year. Each student, 32 hours.  
For electives in this department see page 90.

**FOURTH-YEAR ELECTIVES**

The last half of the fourth year has been set aside for electives. *A minimum of 560 hours is demanded.* Electives are arranged as double courses and single courses. A *double course* occupies the entire day for one month or forenoons or afternoons for two months, and has a value of 140 hours. A *single course* occupies a half day for one month and has a value of 70 hours.

Students who desire to specialize in any major branch of medical study may elect more than one of the courses offered in a given subject, but no student will be allowed to devote his whole elective period to one subject without special permission of the Advisory Board of the Faculty and the consent of the head of the department concerned.

Students electing research work which necessarily is prolonged beyond the time designated for that subject will be permitted to finish it provided the time required does not extend beyond the half-year. The permission of the Advisory Board of the Faculty will be necessary to carry out this arrangement.

The final choice of electives must be left at the Secretary's office on or before December 1, 1917. No changes will be allowed after the final arrangement is made. The time allotted for electives, together with the schedule thereof, must be determined by the Secretary of the Medical School, and the Faculty reserves the right to make any changes deemed necessary in the selection and arrangement of the courses chosen by the student.

Examinations will be held at the end of each course, for the most part practical, and the grade assigned to each student will be sent to the Secretary's office as soon as the course has terminated.

The value of the courses, as stated above, when elected in anatomy, physiology, biochemistry, pathology and bacteriology, or research medicine, must depend on arrangement with the heads of the departments concerned.

**ANATOMY****209. Human Embryology.**

Professor EVANS.

Opportunity is offered for the study of specific problems in human embryology. The collections of both human and comparative embryological material are constantly being augmented. The elective is offered only to students familiar with vertebrate embryology.

*Hours to be arranged.*



**\*210. History of Anatomy.**

Assistant Professor CORNER.

Informal conferences upon the history and literature of anatomy and its relation to the progress of general medical knowledge, illustrated by old books and figures. Limited to six students, one hour weekly.

*Hours to be arranged.*

**211. Physiological Anatomy of Reproduction.**

Assistant Professor CORNER.

Informal conferences and demonstrations. The oestrous cycle, implantation, comparative placentation, etc. Outside reading required. One hour weekly.

*Hours to be arranged.*

**212. Experimental Embryology.**

Dr. SMITH.

Conferences and original work by the experimental method chiefly with amphibian material on problems of developmental mechanics.

*Hours to be arranged.*

**213. Original Investigation.**

Professor EVANS and other members of the staff.

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff.

*Hours optional.*

**214. Seminar.**

Topics will be discussed by the staff and those electing the course.

For the year 1916-17 topics will be chosen from the field of human and comparative embryology.

*Hours to be arranged.*

**PHYSIOLOGY**

**110. Experimental Biology.**

Dr. WULZEN.

Special problems in cell physiology and the tropisms. Designed to give introductory training in methods of research.

*Hours to be arranged.*

**111. Advanced Physiology.**

Associate Professor MAXWELL.

Some simple piece of research is repeated and extended in connection with a study of the original literature on the subject.

---

\* Not to be given 1917-18. This course will be given alternately with course 211.

**212. Research in Physiology.**

Associate Professor MAXWELL.  
*Hours and subjects to be arranged.*

**214. Journal Club.**

The Department Staff.

Discussion of important advances in physiology, reports of research in the department, and abstracts of current papers. Open only to advanced students who have a reading knowledge of French and German. Applications for membership should be made to Professor Maxwell.

**BIOCHEMISTRY AND PHARMACOLOGY****110. Advanced Chemical Biology.**

Professor ROBERTSON.

Special topics may be selected by the student in conference with Professor Robertson.

**210. Research in Biochemistry.**

Professor ROBERTSON.

Open to qualified students who have the necessary time at their disposal. The subject and the time to be devoted to it, to be arranged in conference with Professor Robertson.

**211. Research in Pharmacology.**

Associate Professor WASTENEYS.

Open to qualified students who have the necessary time at their disposal. The subject and the time to be devoted to it, to be arranged in conference with Professor Wasteneys.

**PATHOLOGY AND BACTERIOLOGY****201. Research; Problems of Infection and Immunity.**

Professor GAY.

*Hours to be arranged.*

**202. Research; Neuropathology.**

Associate Professor RUSE.

*Hours to be arranged.*

**203. Research; Bacteriology and Protozoology.**

Assistant Professor HALL.

The investigation of concrete problems suggested by the work in medical bacteriology.

*Hours and units to be arranged.*

**204. Advanced Morbid Anatomy and Histopathology.**

Assistant Professor COOKE.

An elective course for fourth-year and graduate students in medicine, comprising autopsy technic and the working up of tissues and cultures resulting from post-mortem examination. University Hospital.

*Hours to be arranged.*

**205. Experimental Pathology.** Associate Professor RUSK and Dr. —.

Experiments illustrating functional changes as evidenced by chemical and physiological methods and tissue alterations; results demonstrated in course 104. Special problems. Open to qualified students and graduates by special arrangement.

*Hours to be arranged.*

**206. Immunochemistry. Seminar.**

Dr. SCHMIDT.

Consideration and discussion of the physical-chemical aspects of the subject of immunity. Informal discussion and presentation of current problems.

*Hours to be arranged.*

**PREVENTIVE MEDICINE AND HYGIENE**

**201. Preventive Medicine.**

By arrangement with the State Board of Health a limited number of properly qualified students will be given an opportunity to work as volunteer assistants in the Bureau of Communicable Diseases. The nature of the work will depend upon the kind of investigations which are being carried on at the time of the service. The work will include both laboratory and field service. A problem will be assigned to the student and a written report will be required. The problem will be one of the following:

(a) A sanitary survey of a city or town.

(b) The field and laboratory investigation of a public-health problem.

(c) The investigation and control of an epidemic.

To derive the best benefit from the course the student should be prepared to pay traveling expenses.

Double course.

**MEDICINE**

**201. Clinical Medicine (U. C. H.).**

In the wards of the University Hospital opportunity will be offered four students to serve as clinical clerks. Their work will be under the supervision of Professor Moffitt.

Double course, mornings only; limited to four students.

**202. Clinical Medicine (S. F. H.).**

Students will act as clinical clerks in the wards of the San Francisco Hospital, under the supervision of a member of the department.

Single or double course.

**203. Clinical Medicine (O. P. D.).**

Students will act as clinical clerks in the Out-Patient Department of the University Hospital. Opportunity is also afforded a number of students to study the use of the polygraph and the electro-cardiograph.

Single or double course, mornings only; limited to four students each month.

**204. Clinical Medicine (Wards, U. C. H.).**

Students will act as clinical clerks in the wards of the University Hospital. This work will be under the supervision of members of the department and will include such laboratory studies of the patients as are necessary.

Single or double course, afternoons only; limited to four students.

**205. Tuberculosis.**

This course will comprise individual teaching in the taking of histories, the correlation of symptomatology and physical signs, the differential diagnosis of pulmonary tuberculosis by means of physical examination, radiograms, and special laboratory technic. The treatment of tuberculosis and its complications will be considered with special reference to the modern development of specific therapy. The broader view of tuberculosis in reference to its economic and sociologic aspects will be given emphasis. This course will be offered in the tuberculosis wards of the San Francisco Hospital by Assistant Professor Evans. Students will also be instructed in special laboratory examinations of sputum, blood, exudates, etc., in connection with the clinical material of the wards.

Single or double course.

**206. Research in Clinical Medicine.**

Through the co-operation of the staff of the Hooper Foundation opportunity will be offered to two or three students to work on some research problem connected with the material of the medical wards.

Double course; limited to three students.

**207. Clinical Lectures.**

A series of clinical lectures on tumors will be offered by Professor Moffitt one hour a week, Saturday mornings.

**208. Advanced Work in Laboratory Diagnosis.**

Lectures and demonstrations including some of the more advanced methods of clinical examination which are beyond the scope of the required work in clinical pathology. A study will be made of the methods of testing the functional capacity of the kidneys, liver and pancreas, and the diagnostic value, interpretation and limitations of such tests will be discussed. The course will include also a consideration of the more useful methods of studying abnormalities in blood coagulation, particular emphasis being laid upon the differentiation of the various hemorrhagic diseases. Whenever possible illustrative cases will be shown. This course is offered by Dr. Hurwitz.

**NEUROLOGY AND PSYCHIATRY**

**201. Neurology.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

**202. Psychiatry.**

Instruction will be given in history taking, mental examination and psychanalysis, the correlation of physical signs and laboratory findings with the manifestations of mental disorders, the etiology, symptomatology, diagnosis and treatment of mental diseases.

Single or double course.

**DERMATOLOGY**

**201. Dermatology.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants. Opportunity is also afforded for the preparation and examination of biopsies and for the study of the bacteriology of the skin.

Single or double course.

**PEDIATRICS****201. *Pediatrics.***

An elective course in pediatrics will be open to fourth-year students in the wards of the University and Children's hospitals and in the Out-Patient Department of the University Hospital. This course consists of case teaching, in which students will be expected to do all the work in connection with the patients assigned them. This includes doing the laboratory work, looking up all the available literature and keeping bedside records. Ward talks and demonstrations in the laboratory and special case-histories covering conditions not observed in the ward during the time the course is in progress will be given. Students electing double courses may be allowed to take special problems or to do work in special institutions. Not more than four students may elect work in the same institution during any one period. Those electing double courses will be given the preference.

Single or double course.

**SURGERY****201. *Surgery (U. C. H.).***

The students will act as clinical clerks in the wards and Out-Patient Department of the University Hospital. They will also assist in operations or administer anesthetics under the supervision of the members of the department. The number of students electing this course will be limited. This course must be elected for the entire day.

Double course.

**202. *Surgery (S. F. H.).***

The students will act as clinical clerks in the wards of the San Francisco Hospital. They will also assist in operations or administer anesthetics under the supervision of the members of the department. The number of students electing this course will be limited.

Single or double course.

**203. *Neurological Surgery.***

The students will devote their time primarily to the physiology and diagnosis of surgical diseases of the nervous system, and to work in surgery of the peripheral and central nervous system. When not so occupied, students will act as clinical clerks in the wards of the University or San Francisco Hospital.

Single or double course.

**204. Surgical Pathology.**

A research course in subjects to be assigned.  
Single course.

**205. Emergency Surgery.**

Students will act as clinical clerks in the emergency service at the San Francisco Hospital. Students electing this course must take a double course for the entire day.

Double course.

**ORTHOPEDIC SURGERY**

**201. Orthopedic Surgery.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

**UROLOGY**

**201. Urology.**

This course consists of an advanced study of kidney diseases, including renal diagnosis and functional tests. Students also serve as assistants in the Out-Patient Department of the University Hospital and at the San Francisco Hospital, particular attention being paid to cystoscopy and ureteral catheterization.

Single or double course.

**202. Research in Urology.**

Hours and subjects to be arranged.

**OPHTHALMOLOGY**

**201. Ophthalmology.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

**LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY**

**201. Laryngology, Otology and Rhinology.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

**ROENTGENOLOGY**

**201. Roentgenology.**

Students will be assigned to assist in technical work under the direction of Dr. Ruggles.

Single or double course.

**OBSTETRICS AND GYNECOLOGY****201. Obstetrics and Gynecology.**

A practical course including work in the Out-Patient Department, the wards, and the operating room. Students will act as clinical clerks in the wards and as assistants in the operating room.

Single or double course.

**202. Obstetrics and Gynecology.**

A practical course including work at the San Francisco Hospital. Students will act as clinical clerks in the wards and as assistants in the operating room.

Single or double course.



## **SCHEDULES AND LIST OF STUDENTS**



## **SCHEDULES, 1917-18**

**FIRST YEAR  
FIRST HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9						
9-10						
10-11	Histology EVANS SCOTT	Anatomy MOODY CORNER	Histology EVANS SCOTT	Anatomy MOODY CORNER	Histology EVANS SCOTT	Anatomy MOODY CORNER
11-12						Histology Lecture EVANS
1-2						
2-3						
3-4	Anatomy MOODY CORNER	Anatomy MOODY CORNER	Anatomy MOODY CORNER	Anatomy MOODY CORNER	Anatomy MOODY CORNER	
4-5						

**FIRST YEAR  
SECOND HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9					Neurology Lecture SMITH	
9-10	Physiology Laboratory	Physiology Laboratory	Physiology Laboratory	Physiology Laboratory	Biochemistry Lecture ROBERTSON	Physiology Laboratory
10-11					Physiology Lecture BUENETT	
11-12	Physiology Lecture BUENETT	Physiology Lecture MAXWELL	Physiology Lecture MAXWELL	Physiology Lecture MAXWELL	.	Physiology Lecture MAXWELL
1-2	Biochemistry Lecture ROBERTSON	Biochemistry Lecture ROBERTSON	Biochemistry Lecture ROBERTSON	Biochemistry Lecture ROBERTSON		
2-3					Neurology Laboratory SMITH SCOTT	
3-4	Biochemistry Laboratory	Biochemistry Laboratory	Biochemistry Laboratory	Biochemistry Laboratory		
4-5						

**SECOND YEAR  
FIRST HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		Topographical Anatomy CORNER SCOTT (Electives) EVANS	Morbid Anatomy and Histopathology RUSK	Morbid Anatomy and Histopathology RUSK	Topographical Anatomy CORNER SCOTT (Electives) EVANS	Morbid Anatomy and Histopathology RUSK
9-10	Morbid Anatomy and Histopathology RUSK					
10-11		Autopsy Section RUSK		Autopsy Section RUSK		
11-12	Immunology Lecture GAY		Immunology Lecture GAY			
1-2			Topographical Anatomy MOODY SCOTT (Electives) EVANS	Bacteriology and Immunology GAY HALL	Bacteriology and Immunology GAY HALL	
2-3	Bacteriology and Immunology GAY HALL	Bacteriology and Immunology GAY HALL				
3-4						
4-5						

**SECOND YEAR  
SECOND HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Surgical Technic POPE			Surgery TERRY	Clinical Physiology KILGORE	
9-10	Dermatology Lectures MORROW	Medicine MOFFITT	Section Work Surgery	Surgery HOAG	Physical Diagnosis	Surgical Pathology BARTLETT
10-11						Neurology LENNON
11-12	Surgical Pathology BARTLETT	Physical Diagnosis	Obstetrics Lectures and Recitations LYNCH	Physical Diagnosis	Obstetrics Lectures and Recitations LYNCH	Materia Medica Lectures and Demonstrations SCHNEIDER
12-1	Pharmacology Lectures WASTENEYS		Pharmacology Lectures WASTENEYS			
2-3	Prevent. Medicine and Hygiene Lectures CUMMINGS					
3-4	Materia Medica Lectures and Demonstrations SCHNEIDER	Clinical Pathology HURWITZ		Clinical Pathology HURWITZ	Pharmacology Laboratory (Berkeley)	
4-5						
5-6	Homeopathic Materia Medica (Elective) BOEMCKE			Homeopathic Materia Medica (Elective) BROOKS		

**THIRD YEAR**  
**FIRST HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Neurology Clinical Lectures LENNON	Therapeutics KILGORE		Therapeutics KILGORE		
9-10	Medicine Clinical Lectures MOFFITT	Ophthalmology Lectures FRANKLIN	Dermatology MORROW	Medicine Clinical Lectures MOFFITT	Surgery Recitations POPE NAFFZIGER	Therapeutics KILGORE
10-11	<p style="text-align: center;"><b>SECTION WORK</b> <b>Medicine, Surgery, and Ophthalmology</b> <b>at U. C. H.</b> <b>(See section schedule)</b></p>					
11-12						
12-1						
2-3	Obstetrics Lectures SMITH	Pediatrics Lectures and Demonstrations LUCAS	<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
3-4	Applied Homeopathy ( <i>elective</i> ) HILL	Pathological Demonstrations COOKE				
4-5						
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			
			<p style="text-align: center;"><b>Obstetrics Lectures SMITH</b></p>			



### THIRD YEAR SECOND HALF-YEAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Neurology Clinical Lectures LENNON	Surgical Physiology POPE	Surgery Lectures and Demonstrations TERRY	Gynecology Lectures LYNCH NEEL	Surgery Rectations POPE NAFFIGER	Surgery Lectures and Demonstrations TERRY
9-10	Medicine Clinical Lectures MOFFITT	Ophthalmology Lectures FRANKLIN	Dermatology Clinical Demonstrations MORROW	Medicine Clinical Lectures MOFFITT	Syphilology Lectures and Demonstrations SCHMITT	Gynecology Lectures LYNCH NEEL

10-11

#### SECTION WORK

Pediatrics, Throat, and Neurology  
at U. C. Hospital  
Medicine and Surgery  
at S. F. Hospital  
(See section schedule)

11-12

12-1

Psychiatry Lectures RICHARDS
Urology Lectures and Demonstrations HINMAN

2-3	Gynecological Pathology NEEL	Gynecology Lectures LYNCH NEEL	Obstetrics Lectures LYNCH	Obstetrics Demonstrations BREITSTEIN
3-4		Pathological Demonstrations COOKE	Therapeutics KILGORE	
4-5	Applied Homeopathy ( <i>elective</i> ) HILL	Applied Homeopathy ( <i>elective</i> ) HILL	Pathological Demonstrations COOKE	Forensic Medicine D'ANCONA

**FOURTH YEAR  
FIRST HALF-YEAR**

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9		Medicine Clinical Demonstrations S. F. H. EBRIGHT	Surgery Lectures and Demonstrations TERRY	Medicine Clinical Demonstrations S. F. H. EBRIGHT		Surgery Lectures and Demonstrations TERRY
9-9:30		Surgery Clinical Demonstrations S. F. H. BRUNN		Surgery Clinical Demonstrations S. F. H. BRUNN		Roentgenology RUGGLES
9:30-10						Orthopedic Surgery BALDWIN
10-11						
11-12						
12-12:30						
12:30-1						

SECTION WORK  
Orthopedic Surgery, Urology, Throat, etc., and Gynecology  
at U. C. Hospital  
Medicine and Surgery  
at S. F. Hospital  
(See section schedule)

	SECTION WORK Medicine, Surgery, and Pediatrics Wards U. C. H. (See section schedule)	SECTION WORK Medicine, Surgery, and Pediatrics Wards U. C. H. (See section schedule)
2-3		
3-4		
4-5		

## DEGREES CONFERRED MAY, 1917

Frank Philip Brendel.....	Sacramento
1376 Third av, San Francisco.	
Pini Joseph Calvi, B.S.....	San Jose
1116 Clay st, San Francisco.	
Allan Largess Cohn, B.S.....	San Francisco
2436 Clay st, San Francisco.	
Mendel Leopold Cohn, B.S.....	Placerville
2630 Piedmont av, Berkeley.	
Orrin S. Cook, B.S.....	Lodi
245 S. Pleasant av, Lodi.	
Charles Alfred Craig.....	Lakeport
450 Irving st, San Francisco.	
Jewel Fay, B.L.....	Berkeley
5222 Broadway Terrace, Oakland.	
Howard Webster Fleming, B.S.....	San Jose
471 E. Santa Clara av, San Jose.	
William Christensen Frey.....	Modesto
1275 Third av, San Francisco.	
James Ernest Harvey.....	Los Angeles
1624 Wilton Place, Los Angeles.	
Robert Harold Heaney, A.B.....	San Francisco
4287 Twenty-third st, San Francisco.	
Mervyn Heller Hirschfeld, B.S.....	San Francisco
731 Duboce av, San Francisco.	
Merrill Windsor Hollingsworth, B.S.....	Los Angeles
1721a Scott st, San Francisco.	
Horace Hoagland McCoy, B.S.....	Beaumont
2200 Post st, San Francisco.	
Emma Mehlmann, B.L.....	San Luis Obispo
San Francisco Relief Home, San Francisco.	
Hiram Edgar Miller, A.B.....	Elk Grove
1420 Fifth av, San Francisco.	
Vinton Adolf Muller.....	Nevada City
1420 Fifth av, San Francisco.	
Hugh Elmer Penland, B.S.....	Berkeley
2350 Woolsey st, Berkeley.	
Alma Stevens Pennington, B.S.....	San Francisco
2828 Folsom st, San Francisco.	
Elizabeth Schulze, B.S.....	Berkeley
1731 Carlton st, Berkeley.	
Lewis Seligman .....	Dinuba
1278 Fourth av, San Francisco.	
Alson Anderson Shufelt .....	Reno, Nev
2520 Twenty-fourth av, San Francisco.	

Daniel Warren Sooy.....	North San Juan
2119 Clinton av, Alameda.	
William Wallace Washburn, B.S.....	Putney, Vermont
1420 Fifth av, San Francisco.	
John Chilton Williams, B.S.....	Fresno
1980 University av, Berkeley.	
Elmo Russell Zumwalt.....	Richmond
336 Eighth st, Richmond.	

## STUDENTS, SESSION 1916-1917

(Corrected to May, 1917)

## FOURTH YEAR

Frank Philip Brendel .....	Sacramento
1376 Third av, San Francisco.	
Pini Joseph Calvi, B.S. ....	San Jose
1116 Clay st, San Francisco.	
Allan Largess Cohn, B.S. ....	San Francisco
2436 Clay st, San Francisco.	
Mendel Leopold Cohn, B.S. ....	Placerville
2630 Piedmont av, Berkeley.	
Orrin S. Cook, B.S. ....	Lodi
245 S. Pleasant av, Lodi.	
Charles Alfred Craig .....	Lakeport
450 Irving st, San Francisco.	
Jewel Fay, B.L. ....	Berkeley
5222 Broadway Terrace, Oakland.	
Howard Webster Fleming, B.S. ....	San Jose
471 E. Santa Clara av, San Jose.	
William Christensen Frey .....	Modesto
1275 Third av, San Francisco.	
James Ernest Harvey .....	Los Angeles
1624 Wilton Place, Los Angeles.	
Robert Harold Heaney, A.B. ....	San Francisco
4287 Twenty-third st, San Francisco.	
Mervyn Heller Hirschfeld, B.S. ....	San Francisco
731 Duboce av, San Francisco.	
Merrill Windsor Hollingsworth, B.S. ....	Los Angeles
1721A Scott st, San Francisco.	
Horace Hoagland McCoy, B.S. ....	Beaumont
2200 Post st, San Francisco.	
Emma Mehlmann, B.L. ....	San Luis Obispo
San Francisco Relief Home, San Francisco.	
Hiram Edgar Miller, A.B. ....	Elk Grove
1420 Fifth av, San Francisco.	

Vinton Adolf Muller	Nevada City
1420 Fifth av, San Francisco.	
Hugh Elmer Penland, B.S.	Berkeley
2350 Woolsey st, Berkeley.	
Alma Stevens Pennington, B.S.	San Francisco
2828 Folsom st, San Francisco.	
Elizabeth Schulze, B.S.	Berkeley
1731 Carlton st, Berkeley.	
Lewis Seligman	Dinuba
1278 Fourth av, San Francisco.	
Alson Anderson Shufelt	Reno, Nev.
2520 Twenty-fourth av, San Francisco.	
Daniel Warren Sooy	North San Juan
2119 Clinton av, Alameda.	
William Wallace Washburn, B.S.	Putney, Vermont
1420 Fifth av, San Francisco.	
John Chilton Williams, B.S.	Fresno
1980 University av, Berkeley.	
Elmo Russell Zumwalt	Richmond
336 Eighth st, Richmond.	

## THIRD YEAR

Mary Isabella Armstrong, A.B.	Piedmont
112 Bonita av, Piedmont.	
Thomas Floyd Bell, A.B.	Oakland
1379 Fifth av, San Francisco.	
Charles Barrows Bennett, M.A., Sc.M., Ph.D.	Berkeley
Physiology Building, University of California.	
Robert Wilson Binkley, A.B.	Santa Ana
1251 Second av, San Francisco.	
Florence Josephine Chubb, B.L.	Bakersfield
1212 First av, San Francisco.	
*Earle J. Clark, B.S.	Seattle, Wash.
1917 Ferry av, Seattle.	
Frederick Carl Cordes, A.B.	Los Angeles
1251 Second av, San Francisco.	
Henry Chipman Dodge, A.B.	Stockton
1308 Fifth av, San Francisco.	
Charles Louis Freytag, A.B.	San Rafael
1283 Second av, San Francisco.	
Walter Herbert Frolich, A.B.	San Francisco
330 Willard st, San Francisco.	

---

\* Absent on leave, 1916-17.

Cavins Deter Hart, A.B. ....	Colusa
131 Hugo st, San Francisco.	
Mary Ruth Hill, A.B. ....	Carson City, Nevada
131 Hugo st, San Francisco.	
Harold Homer Hitchcock, A.B. ....	Berkeley
1308 Fifth av, San Francisco.	
†George Stevenson Holeman, A.B. ....	Riverside
775 Cole st, San Francisco.	
William Patrick Joseph Lynch ....	Stockton
131 Hugo st, San Francisco.	
John Gray McQuarrie ....	Beaver City, Utah
2909 Adeline st, Berkeley.	
Sidney Olsen, A.B. ....	Riverside
1420 Fifth av, San Francisco.	
Ralph Rabinowitz, A.B. ....	San Francisco
1714 Steiner st, San Francisco.	
Ethel Lucia Righetti, B.S. ....	San Francisco
305 Walnut st, San Francisco.	
Homer Righetti, A.B., M.S. ....	San Francisco
305 Walnut st, San Francisco.	
William Dan Sink, A.B. ....	Oakland
1251 Second av, San Francisco.	
William Otto Solomon, A.B. ....	Eureka
131 Hugo st, San Francisco.	
Laurence Taussig, A.B., M.S. ....	San Francisco
2450 Fulton st, San Francisco.	
Fletcher Brandon Taylor, A.B., M.S. ....	Pasadena
1420 Fifth av, San Francisco.	

## SECOND YEAR

Philip Howard Arnot, A.B. ....	Placerville
1251 Second av, San Francisco.	
Dorothy Wells Atkinson, A.B. ....	Tacoma, Washington
1278 Fourth av, San Francisco.	
Thomas Fred Ayres, B.S. ....	San Francisco
1006 Page st, San Francisco.	
Arthur Elmer Belt, A.B. ....	Huntington Park
1367 Third av, San Francisco.	
Alfred Poyncer Briggs, B.S. ....	Los Angeles
1251 Second av, San Francisco.	
Edwin Louis Bruck, A.B. ....	St. Helena
1251 Second av, San Francisco.	
Ruth Burr, A.B. ....	Sacramento
139 Hugo st, San Francisco.	

---

† In attendance, first half-year.

Alma Locke Cooke, B.S. ....	Oakland
139 Hugo st, San Francisco.	
†Chester Arthur DeLancey, A.B. ....	Oakland
625 Sycamore st, Oakland.	
Charles Beebe Fowler, A.B. ....	San Francisco
1230 Leavenworth st, San Francisco.	
Mervyn Francis Frandy, A.B. ....	Nevada City
270 Carl st, San Francisco.	
†Cletus Henry Graves ....	Pennington
1811 Hearst av, Berkeley.	
Charles Clarke Hall, A.B. ....	Portland, Oregon
1489 Fifth av, San Francisco.	
Lloyd Elliott Hardgrave ....	Taylorsville
El Granada Apartments, Berkeley.	
Heinz G. Hummel, A.B. ....	Bayreuth, Germany
139 Hugo st, San Francisco.	
Thomas Waterman Huntington, Jr., A.B. ....	San Francisco
2629 Pacific av, San Francisco.	
Charles Edward Locke, Jr., A.B. ....	Los Angeles
1251 Fifth av, San Francisco.	
Frederick George Maggs ....	San Francisco
55 Alpine Terrace, San Francisco.	
Robert Carson Martin, A.B. ....	Portland, Oregon
1251 Second av, San Francisco.	
Belle Ellingsen Merrill ....	Oakland
139 Hugo st, San Francisco.	
Oscar Kempfer Mohs, A.B. ....	San Leandro
1251 Second av, San Francisco.	
Lois Pendleton, A.B. ....	Berkeley
139 Hugo st, San Francisco.	
Alverda Elva Reische, A.B. ....	Meridian
139 Hugo st, San Francisco.	
George Konhall Shew, A.B. ....	San Jose
1739 Carlton st, San Francisco.	
Harry Pratt Smith ....	Oakland
1332 Sixth av, San Francisco.	
†James McGeough Sullivan, A.B. ....	San Francisco
759 Buena Vista av, San Francisco.	
Bert Stanford Thomas, A.B. ....	San Francisco
2869 Bush st, San Francisco.	
Harold Guyon Trimble ....	Oakland
386 Oakland av, Oakland.	
†Hans von Geldern, A.B. ....	San Francisco
1724 Broadway, San Francisco.	

† In attendance first half-year only.

\*Ruth Olive Winegarden.....Pasadena  
2118 Channing way, Berkeley.

## FIRST YEAR

†Archibald Eli Amsbaugh.....Newman  
1038 Santa Clara av, Alameda.

Dexter Rankin Ball, A.B.....Santa Ana  
2647 Durant av, Berkeley.

C. Coleman Berwick, A.B.....Berkeley  
1935 Hearst av, Berkeley.

William Henry Bingaman.....Soledad  
455 Crescent st, Oakland.

Marmion Hugo Childress, A.B.....Berkeley  
2415 Woolsey st, Berkeley.

Zach Benjamin Coblenz, A.B.....Santa Maria  
2611 Durant av, Berkeley.

†Harry Carson Coe.....Selma  
2446 Washington st, San Francisco.

Louis Antonio Cribari.....San Jose  
2632 Durant av, Berkeley.

Nelson Caryl Davis.....Ceres  
2203 Chapel st, Berkeley.

Granville Sinclair Delamere, A.B.....Berkeley  
2612 Piedmont av, Berkeley.

John Carey Dement, Jr.....San Diego  
2625 Hearst av, Berkeley.

Hugo Frederick Dormody.....Placerville  
2330 College av, Berkeley.

Efner Dwight Farrington.....El Monte  
2427 Durant av, Berkeley.

Daniel Parsons Foster, A.B.....Berkeley  
2521 Hearst av, Berkeley.

Waldron Ashley Gregory, A.B.....Madison  
2250 Telegraph av, Berkeley.

Franklin Isadore Harris, A.B.....San Francisco  
291 Carl st, San Francisco.

†Frank Kelsey Haight.....Fortuna  
2634 Bancroft way, Berkeley.

Darrell Bertrand Hawley.....Berkeley  
2428 Bancroft way, Berkeley.

Hal Rexford Hoobler, B.S.....Berkeley  
2021 Durant av, Berkeley.

\* Absent on leave, 1916-17.

† In attendance first half-year only.



Hubbard Spencer Hoyt, A.B. ....	Pacific Grove
2112 Durant av, Berkeley.	
George Shigeki Iki, A.B. ....	Berkeley
1430 Milvia st, Berkeley.	
Demetrio Eugene Jeffry, A.B. ....	Healdsburg
2627 Ridge road, Berkeley.	
Charles Frank Keith, A.B. ....	Berkeley
2622 Dana st, Berkeley.	
John J. Kingston ....	San Francisco
320 Pierce st, San Francisco.	
Frank Yoshimiche Kitsuda, A.B. ....	Berkeley
2308 Virginia st, Berkeley.	
Kunisada Kiyasu, A.B. ....	Los Angeles
2308 Virginia st, Berkeley.	
Ewald Axel Larson, A.B. ....	Kingsbury
2407 S. Atherton st, Berkeley.	
Russell Van Arsdale Lee, A.B. ....	San Francisco
2446 Washington st, San Francisco.	
Armistead C. Leigh, Jr., A.B. ....	Los Angeles
2531 Channing way, Berkeley.	
†Charles Whitney Loraine ....	San Francisco
2528 Ridge road, Berkeley.	
Irvine McQuarrie, A.B. ....	St. George, Utah
1932 Home st, Berkeley.	
†Garrett Richard McTaggart ....	Stockton
422 Sutter st, Stockton.	
Elwood Richard Olsen ....	San Francisco
55 Devisadero st, San Francisco.	
†Gilbert Lansing Patterson ....	Stockton
435 E. Flora st, Stockton.	
Clarence Griffith Potter ....	San Francisco
836 Clayton st, San Francisco.	
†David Germain Sala ....	Stockton
2430 Bancroft Way, Berkeley.	
John Jacob Sampson ....	San Francisco
2211 Fulton st, Berkeley.	
Henry Albert Sawyer ....	Berkeley
83 Shasta st, Berkeley.	
†Hans Frank Schluter ....	Orland
2600 Durant av, Berkeley.	
Jay Randolph Sharpstein, A.B. ....	Alameda
1545 Benton st, Alameda.	
Edward Byer Shaw, A.B. ....	Berkeley
2511 Channing way, Berkeley.	

† Absent on leave, second half-year, 1916-17.

Henry Silberman .....	San Francisco
1372 McAllister st, San Francisco.	
†Milton Silver .....	Los Angeles
2533 Channing way, Berkeley.	
Morris Harold Silverberg .....	San Francisco
2519 Durant av, Berkeley.	
Henry Ignatius G. Sussdorff, A.B. ....	Berkeley
2542 Chilton way, Berkeley.	
Claude Verner Thompson, A.B. ....	Orland
2614 Dwight way, Berkeley.	
Arthur Lafayette Warren, A.B. ....	Berkeley
1610 Bonita av, Berkeley.	
*George Anderson Williams .....	Berkeley
1980 University av, Berkeley.	
Frank Willis Yocom, B.S. ....	Pasadena
2642 Bancroft way, Berkeley.	

---

\* Absent on leave, 1917-18.

† Absent on leave, second half-year, 1916-17.

---

### SUMMARY

#### Candidates for the Degree of Doctor of Medicine

Fourth Class .....	26
Third Class .....	24
Second Class .....	30
First Class .....	49
<hr/>	
Total .....	129

## **GRADUATES**



GRADUATES

1864

D'Amour, Ferdinand  
Davie, Jr., J. C.  
\*DuBois, A. L.  
\*Handy, J. C.  
Pond, W. B.  
\*Stivers, C. A.  
\*Weeks, F. L.  
Welch, W. P.

1865

Drinkhouse, E. J.  
Fahn, C. M.  
Gros, Edward  
Taylor, Edward R.

1866

Barber, Edward T.  
\*Brierly, Conant B.  
Fine, Andrew  
Heavitt, Granville  
Lingo, Marin B.  
\*Plummer, Richard H.  
\*Prevost, J. Renny  
Richardson, J. A.  
\*Rupe, Samuel H.

1867

Cairns, John  
\*Hackett, John  
Hansen, Thomas C.  
\*O'Neill, A. A.  
\*Robinson, Luke  
Shelton, Thomas W.  
Steely, John  
\*Widney, J. P.

1868

Bates, Charles B.  
\*Cameron, James S.  
\*Corbett, S. J.  
\*McGuire, Lucius  
\*Newmark, Valentine  
Waltz, G.

1869

Caldwell, Robert  
\*Clark, J. J.

\* Deceased.

Cochran, W. A.  
Haile, C. S.  
\*Toland, Charles A.  
\*Tuttle, H. P.  
\*Turner, J. T.  
Webber, J. C.  
\*Younger, Alex. J.

1870

Briggs, M. W.  
Mackenzie, J. H.  
Rucker, H. N.  
Sage, C. T.  
Seawell, John L.

1871

Churchill, Leonard  
\*Hampton, James E.  
\*Kirkpatrick, C. A.

1872

Keane, George B.  
Kurtz, Joseph  
\*Lyford, L. Dextor

1873

\*Anderson, J. A.  
\*Cox, Thomas H.  
\*Martineaut, E. D.  
Mays, William H.  
\*O'Neill, J. C.  
\*Schnabel, Martin  
\*Whittell, A. P.

1874

Biggs, Frederick P.  
\*Blake, James W.  
\*Delmont, Francois  
\*Hicks, Young E.  
\*McDermott, William P.  
McLean, Robert A.  
Miller, Charles F.  
Nottage, George E.  
\*Waters, John W.

1875

Agnew, William P.  
Allen, Edward O.

- \*Benedict, C. W.
- Calbreath, John F.
- Callaghan, D. T.
- Davidson, Joseph R.
- \*Dawson, Alson
- Harris, Thomas W.
- Kosbue, A. Emil
- Mason, Benjamin F.
- Miller, John A.
- Scheelhaus, E. J.
- \*Simon, Jules A.
- Smith, William P.
- Swann, Charles M.

1876

- \*Blake, Charles M.
- \*Braman, J. J.
- Brown, George J.
- \*Chaigneau, V. A.
- \*Connolly, John J.
- \*Hodgdon, W. H. A.
- \*Hook, Walter E.
- Kirkwood, J. W.
- \*Lindenberger, W. H.
- McCormack, H. F.
- Minor, John F.
- Pope, Horace E.
- Powell, J. M.
- \*Quinlin, Albert P.
- Rorke, James
- Seawell, Thomas W.
- Sichel, Gust. W.
- Smith, T. H.
- \*Summers, G. M.
- Wanzer, L. M. F.

1877

- \*Duncan, S. C.
- \*Frost, James
- \*Heinimann, J. M.
- Joshephi, Simon E.
- McColl, G. F.
- McDonald, J. J.
- \*Pescia, Joseph
- \*Reich, George A.
- \*Reynolds, George E.
- Stephenson, B. E.
- Swisher, J. R.
- Von Buelow, F.
- Weiss, E. M.
- Wheaton, S. P.
- Williamson, W. T.

\* Deceased.

1878

- Bradbury, George F.
- Bruns, William C.
- Curran, Mary K.
- \*Guillemard, A. J.
- \*Lewitt, Frank A.
- \*McLaughlin, M. A.
- Osler, Charles
- \*Pruett, J. A.
- Seavey, L. T.
- Shuey, Sarah I.
- Summers, John F.

1879

- Addington, D. M.
- \*Downs, George W.
- \*Foote, Gilbert
- \*Gale, Herbert A.
- Harmon, Roberdeau
- \*Howell, H. H.
- \*Hughes, Lewis J.
- Johnstone, Arthur.
- Scott, Arthur W.
- Smith, George S.
- Sparks, Agnes
- Voight, W. C.
- Younger, Edward A.

1880

- \*Bettelheim, A. F.
- \*Caldwell, H. H.
- \*Foulkes, J. F.
- Hopkins, T. P.
- Laidlaw, Horace
- Lord, Franklin F.
- \*Meyers, Robert C.
- Mueller, H. E.
- Pond, Henry M.
- Robertson, John W.
- Sobey, L. A.

1881

- Bates, Walter E.
- Beardsley, E. M.
- Clinton, Charles A.
- \*Dean, Andrew J.
- DePuy, Anson A.
- Evans, C. W.
- \*LeFevre, J. P.
- Gillham, G. W.
- \*Grattan, E. L.
- Merritt, Emma L. Sutro

Morgan, F. E.  
Olds, William H.  
Sawyer, H. C.  
\*Sellon, Anna F.  
Sheets, John H.  
\*Young, Junius D.

1882

Beaumeister, Benjamin H.  
Bromly, R. Innis  
\*Buchard, L. S.  
Matthewson, J. M.  
Merritt, George Washington  
\*Moody, Mary W. F.  
\*Muentner, Henry  
Patterson, T. J.  
Payne, Joseph Richey  
Pressley, John B.  
Reardon, Thomas B.  
\*Senter, E. S.  
\*Stanton, James  
\*Stewart, J. M.  
Tarter, Albert P.

1883

\*Bordé, Henry J.  
\*Hughes, Jerome A.  
Lomigo, Emile V.  
Lovett, William B.  
\*Lundborg, Gustaf W.  
Merry, Emile C.  
Patton, Charles J.  
Reed, Clarence E.  
\*Riley, Jahial S.  
Urban, Kurt  
\*Wickman, William J.

1884

\*Anderson, Winslow  
\*Beede, William M. S.  
Buckley, Vincent P.  
Clark, William D.  
Connolly, Thomas E.  
D'Ancona, Arnold A.  
Day, John G.  
Dodge, Henry Washington  
\*Enright, Chas. M.  
Gates, Frank H.  
\*McCoy, Juan W.  
Nuttall, George H. F.  
Partsch, Herman  
Scholl, Albert L.  
\*Sherman, Elenora S.

\* Deceased.

1885

Armistead, Howell V.  
Baldwin, Robert O.  
\*Collins, Addison C.  
Gallwey, John  
Howard, Katherine I.  
Lustig, Daniel D.  
Nichols, Theodore A.  
\*Perrault, Edward L.  
\*Wilcox, Wilbur J.  
Williamson, John M.  
\*Winton, Henry M.  
Woods, W. E. Josephine  
\*Wooster, David

1886

Brown, Ernest L.  
\*Chalmers, William P.  
Conlan, William E.  
Kingsley, Thomas H.  
\*Plant, Benjamin A.  
Soboslay, Julius  
Wilson, Kemlo R. McD.

1887

Cluness, Wm. R., Jr.  
Cook, Frank S.  
Fottrell, Michael J.  
Glaze, George I.  
Howard, William B.  
Kirchhoffer, Frederick  
Koboyashi, Sankio  
Mays, Arthur H.  
\*McLean, John T.  
Morrill, Augustus L.  
\*Park, Theorilda C.  
\*Reardon, William E.  
Shannon, James  
Tevis, Henry L.  
Watanabe, Tey  
Williams, Robert B.

1888

Alexander, Monroe E.  
Barbat, John H.  
Cox, Rosamond L.  
\*Dennis, Nathan P.  
\*Dunn, James P. H.  
\*Estes, Melvin B.  
Frick, Euclid B.  
Happersberger, Albert K.  
Kelly, John L.  
Noble, John A.  
White, James T.

## 1889

- \*Bunker, Robert E.
- \*Foreman, Francesca I.
- Gleaves, Christopher C.
- Greene, Frances R. Marx
- Haskin, William H.
- Holmes, Edward R.
- Jones, Ottowell W.
- Kawakami, Nasayasu
- Mather, Squire R.
- Mayer, Oscar J.
- O'Brien, Aloysius P.
- Oliver, Joseph A.
- Tuggle, Samuel P.
- Wade, Mark S.
- \*Zeyn, Gustav C.

## 1890

- Bond, Frederick T.
- \*Felt, Rae
- Hawkins, William J.
- Hunkin, Samuel J.
- \*Kugeler, Henry B. A.
- Mann, Chas. S.
- \*Martinez, John M.
- Meyer, Albert G.
- Mohun, Charles C.
- Montgomery, Charlotte B. S.
- Scholl, Albert J.
- Surryhne, Benjamin F.
- Thrasher, Marion

## 1891

- Baker, Henry Anthony
- Blake, Charles Robert
- Burnham, Clark James
- Collischonn, Philip
- Driscoll, Edward Paul
- Dunbar, Arthur White
- Ford, Campbell
- \*Kirby, William Thomas
- Lagan, Edward
- Macdonald, John Munroe
- McMurdo, John R.
- \*Milton, Joseph Leo
- Molony, James John
- Morse, Fred Wellington
- Olsen, Marie Colditz
- \*Oviedo, Louis Perfecto
- Petrie, Frank Branson
- \*Sims, John Marion
- Smith, Weston Olin
- Warner, James Kyle
- Wayson, James Thomas

\* Deceased.

## 1892

- Caglieri, Guido E.
- Crook, Emma E.
- D'Ancona, Lillie Busseus Schram
- \*Fraser, S. J.
- Johnstone, Ernest Kinlock
- Lowe, Frederick William
- \*McCone, James F.
- Nelson, John A.
- Ogden, George W.
- Rathbone, William T.
- Sanborn, Franklin H.
- Sutherland, Robert L.
- Terry, Wallace Irving
- Von Adelung, Edward, Jr.

## 1893

- Aird, John W.
- Berndt, Richard M. H.
- Cadwallader, Rawlias
- Conrad, David Andrew
- Cothran, Abraham L.
- Falck, Millicent E.
- Fleming, Bartholomew Francis
- Flesher, Frederick Charles G.
- Freeman, Ernest Maynard
- Gall, Alexander Marshall
- Glover, Cosmos Andrew
- Horton, Edward Shelton
- Hulse, Clarence H.
- \*Lagan, Hugh
- Maguire, Charles S.
- McCarthy, Charles D.
- Phelan, Henry duR.
- \*Pond, Gardner Perry
- Rantz, Stephen H.
- Sanborn, William K.
- Schrader, Sydney H.
- Simon, Grace

## 1894

- Booth, John R.
- Bunnell, Edwin
- Clark, George Waverly
- Cleary, Stephen
- Crees, Robert
- De Puy, Edward Spence
- Dickerson, Clarence Fitzbugh
- Fitzgibbon, Frank Timothy
- Freeman, Charles Henry
- Greth, August
- Hill, Edward John
- Holmes, Thomas Blakeman



Leland, Thomas B. W.  
 MacInnis, Martin B.  
 McCullough, Frank E.  
 McKnight, Helen M.  
 Morrissey, Joseph Grant  
 Morrison, Mary E.  
 Pawlicki, Casimir F.  
 \*Reith, Fenelon M.  
 Root, Corydon B.  
 Ryfkogel, Henry A. L.  
 Selling, Natalie  
 Sharp, James Graham  
 \*Sime, Neli A.  
 Smith, Harvey F.  
 Stirewalt, Henry W.  
 Thompson, James Goodwin  
 Tiffany, Edward V.  
 Wilkes, Farrington  
 Wright, Henry E.

1895

Bacigalupi, Louis D.  
 Badilla, Jose Crisanto  
 \*Barbat, William Benjamin Franklin  
 Boyes, William J. R.  
 Browne, Augustus Frank  
 Dudley, Frank W.  
 Easton, Daniel E. F.  
 \*Emerson, Horatio B.  
 \*Flood, John J.  
 \*Gray, Robert F.  
 \*Hay, William G.  
 \*Heller, Clarence Louis  
 Helms, George L.  
 Hopkins, Edward Kimball  
 Hull, James P.  
 Hyde, George E.  
 Lartigau, August L. J.  
 \*Lutz, Frederick A.  
 MacCallum, Hammond J.  
 \*McCulloch, Thomas A.  
 Nast, John Ernest  
 Philips, Adelina M. Feder  
 Rinne, Frederick A.  
 Sankey, Mary J.  
 Schmelz, Charles J.  
 Sharp, Rose Eppinger  
 Stone, Bertram  
 \*Trafton, William Augustus  
 Villain, Albert J.

1896

Allen, Clifford Emmet  
 Anderson, Helen O.  
 \*Armistead, Cecil M.  
 Bancroft, Eleanor May Stow  
 Beck, Henry Martin  
 Blum, Sanford  
 Botsford, Mary Elizabeth  
 Broughton, George Anthony  
 Burnham, William P.  
 Cameron, Howard McD.  
 Chace, William D'Arcy  
 \*Coe, Leonard Hayes  
 Cox, Thomas F.  
 Giannini, Attilio H.  
 Harrigan, Joseph T.  
 Katsuki, Ichitaro  
 Kellogg, Wilfred Harvey  
 \*Kearney, James Frederick  
 \*Lee, Arthur S.  
 Maloon, Clarence LaFayette  
 McGettigan, Charles D.  
 \*McLaughlin, Alfred  
 Maher, Thomas D.  
 Morgan, Charles L.  
 Morrow, Howard  
 Murphy, James Daniel  
 Muscot, Brayton  
 Newman, Alfred  
 Noble, Mary L.  
 O'Brien, John Henry  
 O'Brien, John Thomas  
 Oldenbourg, Louise Augusta  
 \*O'Malley, William Henry J.  
 Orr, Robert H.  
 \*Painter, George Louis  
 \*Parkman, Wallace Ernest  
 Putnam, Victor E.  
 \*Rochex, Joseph  
 Ryer, Marshall B.  
 Scott, Florence  
 \*Stafford, John T.  
 Stern, Arthur A.  
 Stewart, Mary J.  
 Stone, Mack V.  
 Stover, William M.  
 Thompson, Grace Feder  
 Thorpe, Lewis Sanborn  
 \*Trask, Henry Caustin  
 Trevino, Alberto  
 Waller, Newton B.

\* Deceased.

## 1897

Borchers, Bertha  
 Curl, Holton C.  
 Dunn, William Lawrence  
 Hickey, Thomas A.  
 \*Huntington, Samuel D.  
 \*McMahon, Frank A.  
 \*McLean, Murdoch

## 1898

Abraham, Henry  
 Bartlett, Cosan Julian  
 Bell, William Lisle  
 Boalt, Grace S. Linforth  
 Bruguiera, Pedar Sather  
 Callaway, Edwin  
 Crowley, Thomas J.  
 Duffey, George Woodward  
 Fine, Henry M.  
 Giroux, Edward David  
 Hill, Howard Stephen  
 Judell, Malvina I.  
 Keenan, Alexander Stanislaus  
 Lucchetti, Victor F.  
 Menefee, Joseph S.  
 Muller, Frederick C.  
 Roche, Thomas B.  
 Tillman, Frank J.  
 Tobriner, Oscar D.  
 Trew, Neil C.

## 1899

Arthur, Samuel Richard  
 Ash, Rachel Leona  
 Clark, Thomas James  
 Colliver, John Adams  
 Dinkelspiel, Edgar Meyer  
 Ebright, George Elliot  
 Emerson, Mark Lewis  
 Franklin, Milton Washington  
 Frick, Donald Jackson  
 Gardner, Samuel James  
 Gillihan, Allen Francis  
 Graham, Harrington Bidwell  
 Henesey, Walter Joseph  
 Lanz, Paul Ruhnke  
 Legge, Robert Thomas  
 \*Millar, Charles Forester  
 McElroy, Bernard Francis  
 Onesti, Silvio Joseph  
 Pope, Emma Wightman  
 Pope, Saxton Temple

\* Deceased.

Rice, Edward James  
 Stevens, William Emerson  
 Stevenson, George Lawrence  
 Taylor, James Edward  
 \*Taylor, Oscar Nettleton  
 Volkhardt, Vida Redington  
 Weyer, Gustavus Adolphus  
 Willard, William Patten

## 1900

Alderson, Harry Everett  
 Bacigalupi, David Eugene  
 Dorn, Dora Ida  
 Doychert, Ernestine  
 Farrow, Edgar James  
 Fernandez, Manuel  
 Fischer, Elizabeth F. J.  
 Harvey, William P.  
 Irones, Rutherford Buchard  
 Klotz, Bernard John  
 Langdon, Samuel Walter Ross  
 Larson, Julia Paulina  
 Laughlin, Clyde Briggs  
 Maguire, Thomas Michael  
 McChesney, George Jewett  
 McIntosh, Arthur Merrill  
 \*Miyabe, Tadataro  
 Moore, William George  
 Nolan, Mary Elizabeth  
 Osprig, Peter  
 Pratt, Matthew Dennis  
 \*Reinhardt, George Frederick  
 \*Russ, Raymond John  
 Saph, Louis Victor  
 Simpson, Frank William  
 Sullivan, John Francis  
 Sweeney, George Joseph  
 \*Vassault, Theodora Elliott  
 Watts, Herbert Charles  
 Wemple, Emmet LeRoy, Jr.  
 Wilder, Edwin Milton

## 1901

Arthur, Edgar Allen  
 Beerman, Wilfred Fenton  
 Dickie, Walter Murray  
 Dresser, Ralph Orlando  
 Force, John Nivison  
 Hill, Florence McCoy  
 Hill, Harold Phillips  
 Hill, Reuben Chandler  
 Kavanaugh, Mary Frances

Lennon, Milton Byrne  
 Leonard, John Vaughan  
 Lindsay, William Kinkade  
 Madsen, Rasmus Hansen  
 Lartigau, Kate Isabel Brady  
 Morong, Frederick Lincoln  
 \*Murphy, William James  
 Purlenky, George Philip  
 Sanborn, Fletcher Greene  
 Schmitt, Lionel Samuel  
 Seawell, James Walter  
 Simmons, Haydn Mozart  
 Smythe, Hudson  
 Sweetser, George William  
 Thomas, Benjamin  
 Toner, Joseph Michael  
 \*White, John Lysander  
 Woolsey, Chester Howard  
 Yanagisawa, Una Yone

1902

Bakewell, Benjamin  
 Baumgarten, William  
 Bill, Philip August  
 Buckley, Emma  
 Chilson, William Charles  
 Culver, Blanche C. Van Heusen  
 Deininger Marguerite  
 \*Fanning, Henry David  
 Foster, Ernest Charles  
 Gleason, Charles Raymond D.  
 Henderson, Frank Revere  
 Juilly, George Hippolyte  
 Kucich, Ostroilo Stanislaus  
 Lee, Adelbert Watts  
 Leimbach, John Herbert  
 Lendrum, Birney Alexander  
 Lensman, Arthur Pascal  
 Majors, Ergo Alexander  
 Mallery, John Harry  
 McGinty, Arthur Thomas  
 Meagher, Joseph Frederick  
 Merwin, Caroline Stow  
 Moulton, Dan Hazen  
 Newton, John Crockett  
 O'Donnell, Joseph Martin  
 Piper, Harry Elwin  
 Powers, George Herman  
 Pressley, James Fowler  
 Putnam, Frank L.  
 Quinn, Thomas D'Arcy McGee  
 Tebbe, Frederick Henry  
 Thompson, Lewis Lee

Topham, Edward  
 \*Walsh, William John  
 Williams, Walter Joseph M.  
 Zumwalt, Frederick H.

1903

Baer, Adolph  
 Biber, Paul Edward  
 Bine, René  
 Breitstein, Louis Isidor  
 Culver, George DeWitt  
 Duggan, Henrietta Hagan  
 Ellis, James Alexander  
 Girard, Frank Robert  
 Hamilton, James Kiah  
 Hill, Howard Gilman  
 Hurley, James Raymond  
 Johns, Madeline  
 Kavanagh, Joseph James  
 Lissner, Henry H.  
 Longabaugh, Rudolph Ignatius  
 McGuire, William Garrett  
 McKinnon, Aloysius John  
 McKown, Charles Lemon  
 McNab, Thomas Reid  
 Miner, Mark Leonard  
 Olcovich, Viola Ruth  
 Reynolds, Robert G.  
 Roberts, Harry Philip  
 Rosenberg, Caroline  
 Rutherford, Walter Scott  
 Stone, Earle Almerson  
 Stafford, David Emmet  
 West, Sydney Vattel  
 Wills, Clarence Alfred  
 Winslow, Josephine E. Barbat

1904

Baker, Morgan Dillon, Jr.  
 \*Baum, Maurice Lowell  
 Baumeister, Edward Emery  
 Brown, David William  
 Brownsill, Edith Sara  
 Castlehun, Paul  
 Chain, John Nolan  
 Ewing, David Albert  
 Foshay, Arthur Wellesley  
 \*Harker, George Asa  
 Hart, Morton Edwin  
 Hector, Louise A. Linscott  
 Hector, Robert, Jr.  
 Hoag, Foster Melancton  
 Jacobs, Louis Clive  
 Kofoid, Henning

\* Deceased.

McClish, Clarke Loring  
 Mix, Pernier Albert  
 Nicholls, Robert Julian  
 Peoples, Stuart Zeno  
 Sandholdt, John Peter  
 Schwarz, Jacob  
 Slavich, John Francis  
 Smith, Eugene Kneeland  
 Van Tassell, Fred Hugh  
 Waldeyer, Wilhelm  
 Warren, Henry Claud  
 Webster, Hannah Ellen

## 1905

Albee, George Cummings  
 Alexander, Edgar William  
 Bigelow, Coniah Leigh  
 Blair, James Clark  
 Bricca, Constantine Raphael  
 Briggs, George Abiel  
 Cothran, William Franklin  
 Cowden, Ambrose Franklin  
 DeHaven, Mary Tom  
 Harker, Harriette Buttler  
 Hoffman, Herman Verplanck  
 Kenny, William  
 Peck, John William  
 Reeve, Oscar Charles  
 Ryan, Louis Xavier  
 Snyder, George Samuel  
 Turner, Eldridge Curtis  
 Vickerson, John Irving

## 1906

\*Adler, Alexander  
 Brasier, Olive Violet  
 dal Piaz, Antonio Menotti  
 Dannenbaum, Sydney Roy  
 Doran, Alexander Vincent  
 Eidenmuller, William Cooper, Jr.  
 Franklin, John Henry  
 Hardy, Samuel Percy  
 Hays, Wilfred Bertram  
 Hunter, George Graham  
 Igo, Louise Mary  
 Jones, Charles Breckenfield  
 Kronenberg, Herman  
 Mahan, David Joseph  
 Ochsner, Richard Leon  
 Stone, Waid James  
 Temple, Jackson

\* Deceased.

Wrenn, Joseph Thomas  
 Zumwalt, Reuben Sylvester

## 1907

Alexander, Archie Addison  
 Allen, Frederick Madison  
 Bingaman, Elmer Wiley  
 Bixby, Wilfred Everett  
 Clark, John Aloysius  
 \*Craig, Lloyd Alexander  
 Dawson, William Calhoun  
 Devine, Cornelius Thomas  
 Dodds, Thomas Garfield  
 Gutzwiller, Anna Maria  
 Howell, Walter Orrin  
 Johnston, James Harvey  
 Ostrom, Earl Emmet  
 Paroni Meads, Romilda  
 Pauson, Charles Arthur  
 Peterson, Edward August  
 Proctor, Mehitabel Clara  
 Schulze, Otto Theodore  
 Sobey, Gifford Lyne  
 Stansbury, Middleton Pemberton  
 Stoddard, Thomas Albion  
 Sylvester, Florence Mabel  
 Telfer, Gavin James  
 Walcott, Allen Moore

## 1908

Beebe, Lela June  
 Briggs, LeRoy Hewitt  
 Bunnell, Alexander Sterling  
 Cartwright, Sanford Warren  
 Foster, Harry Emerson  
 Frates, Frank Edward  
 Howe, Louis Philippe  
 Jacobs, Samuel Nicholas  
 Jee, Shin Five Pond Mooar  
 Johnson, Hans Coford  
 Lewitt, Frederick Clinton  
 Mansfield, Thomas Drummond  
 Meads, Albert Manson  
 Newman, Lester  
 Powell, Alvin  
 Sutherland, Robert Thomas

## 1909

Cohn, Herbert Jacob  
 McVey, Charles Leland  
 Meyers, Wallace Longfellow

Naffziger, Howard Christian  
White, Margaret

1910

Hooker, Marion Osgood  
Irwin, Wilbur Henry  
Long, Seely Frederick, Jr.  
Moore, Chester Biven

1911

Baldwin, Walter Isaac  
Best, Eldridge John  
Bryan, Lloyd  
Campbell, William Howard  
Gompertz, Kate Rawlinson  
Markel, Howard Hill

1912

Bailey, Samuel Ellsworth  
Bush, Henry Chesley  
Cleary, Ernest Winton  
Dozier, Linwood  
Hoag, Carl Leslie  
Kelly, Frank Lewis  
Long, Herbert Everett  
Powell, Dewey Robert  
Prince, Lionel David  
Stadtmuller, Ellen Smith  
Sweet, Clifford Daniel

1913

Allen, Warren Barrett  
Aller, Daniel Irwin  
Catton, Joseph Henry  
Cornell, Earl Hamilton  
Harvey, Richard Warren  
Marks, Selby Harold  
Risdon Storer, Ruth Charlotte  
Tranter, Charles Lee

1914

Abbott, Roy Charles  
Barney, Edna Locke  
Baxter, Frank Stanley  
Berkley, Hugh Kling  
Bull, Edward Cline  
Cunningham, Ruby Lacy  
Ehlers, Henry  
Lewis, Elizabeth Grace

Pierce, George Warren  
Rowe, Albert Holmes  
Scatena, Fred Nicholas

1915

Betts, Irvin H.  
Clapp, Gordon Adams  
Epsteen, Abelson  
Friedman, Aaron  
Gelston, Clain Fanning  
Holzberg, Henry Leopold  
Kretsinger, George Arneke  
Kruse, Fred Herman  
Maxwell, Alice Freeland  
Rehfishch, John Morse  
Seaver, Homer Carlton  
Wells, Clarence Edgar  
Woolsey, John Homer

1916

Arrington, Mabel Florence  
Baillie, Elizabeth Worley  
Chamberlain, William Edward  
Charvoz, Elton Ralph  
Cook, Enos Paul  
Corey, Dunnleigh  
Craig, Mary  
Davis, Brython Parry  
Dunn, Thomas Balfour Mackie  
Goss, Orville Roscoe  
Hare, Herold Pittman  
Holliger, Charles Daniel  
Horner, Warren Douglas  
Jones, Maurice  
Linde, Frederick George  
Mathé, Charles Pierre Louis  
Morris, Laird Monterey  
Morris, Myrl  
Newell, Robert Reid  
Owen, Joseph Allen, Jr.  
Pinger, Frank William  
Pritchard, Jacob Leroy  
Ruddock, John Carroll  
Schulze, Margaret  
Searls, Henry Hunt  
Sherman, Julius  
Sherman, Robert Stanton  
Thompson, William Ben  
Williamson, Marshall Gould

1917

Brendel, Frank Philip  
Calvi, Pini Joseph  
Cohn, Allan Largess  
Cohn, Mendel Leopold  
Cook, Orrin Simeon  
Craig, Charles Alfred  
Fay, Jewel  
Fleming, Howard Webster  
Frey, William Christensen  
Harvey, James Ernest  
Heaney, Robert Harold  
Hirschfeld, Mervyn Heller  
Hollingsworth, Merrill Windsor

McCoy, Horace Hoagland  
Mehlmann, Emma  
Miller, Hiram Edgar  
Muller, Vinton Adolf  
Penland, Hugh Elmer  
Pennington, Alma Stevens  
Schulze, Elizabeth  
Seligman, Lewis  
Shufelt, Alson Anderson  
Sooy, Daniel Warren  
Washburn, William Wallace  
Williams, John Chilton  
Zumwalt, Elmo Russell

**REGISTER—PART IX**

**LOS ANGELES MEDICAL DEPARTMENT**

**A SCHOOL FOR GRADUATES OF MEDICINE**

**NOVEMBER, 1917**





# LOS ANGELES MEDICAL DEPARTMENT

## A SCHOOL FOR GRADUATES OF MEDICINE

---

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D., L.H.D., President of the University, *ex officio* President of the Faculty, California Hall, Berkeley.

GEORGE H. KRESS, B.S., M.D., Dean of the Faculty, 245 Bradbury Building, Los Angeles.

(The complete list of officers of instruction in the Los Angeles Medical Department is contained in the separate announcement of the department, obtainable from Dr. George H. Kress, 245 Bradbury Building, Los Angeles.)

The Los Angeles Medical Department of the University of California is an institution offering instruction to graduates of medicine only. The undergraduate medical work of the University is carried on at Berkeley and at San Francisco.

The Los Angeles Medical Department traces its origin to the institution of a college of medicine by the University of Southern California in 1886. From that date until February of 1909 it remained a medical department of the University of Southern California, but in the latter year its property was transferred to the University of California.

In order not to duplicate the expense of undergraduate teaching, it was decided in 1914 to confine the work of the Los Angeles Medical Department to instruction of graduates of medicine only. In this work of graduate instruction it is the aim of the institution to offer work for all graduates who desire to review past studies, or who wish to pursue courses which would keep them in touch with the recent advances in medicine.

The courses offered come under three major heads:

### 1. The Purely Clinical Courses.

In these courses the practitioner attends the dispensary and hospital clinics and, without any obligations on the part of the instructors to give special didactic instruction, follows the clinical work in the dispensary and hospital, and obtains therefrom such knowledge and experience as is possible.

### 2. The Review Courses for General Practitioners.

In this group of courses the practitioner will be given a review in all of the major clinical branches, the work being both clinical and didactic, the didactic work, however, being handled largely by the specialists from the standpoint of the general practitioner.

### 3. The Courses in the Specialties.

The work under this heading will be both clinical and didactic. The didactic work will go into considerable detail, but the courses which will be offered will be of different types, according to the capacity of the student to profit therefrom.

The clinical work will give the student opportunity to work with patients in the dispensary and at the bedside, so that he may acquire proper methods of technique, and that experience that will enable him in his particular line of work, to have a greater knowledge and capacity than his fellow in general practice.

The purely clinical courses in the dispensary can be entered at any time.

The review courses for general practitioners and the courses for specialists will be given three times a year and will cover a period of practically three months, and the work will be so arranged that the practitioner can devote practically the whole day to his work.

All legally licensed practitioners of the United States will be eligible for admission to these courses, this work being construed to be an expression of the general extension work of the University.

*Certificates.*—Certificates of attendance will be granted only to those who pursue courses covering a period of at least three months, and these certificates will be certificates of attendance only.

Students pursuing all-day courses of at least three months, and who give notice of a desire to have a certificate of proficiency, must take an examination at the close of their work to determine whether such a certificate of proficiency can be granted.

*Fees.*—The fees will be nominal, but in all didactic work there must be at least three students in the class, and if there be a smaller number the fees for such work must equal the total of the tuition which would have been received from at least three students.

The facilities for work at Los Angeles are very great, the city itself having an estimated population of between five and six hundred thousand people. No city in the United States has shown the marvelous increase of population as has Los Angeles in the last several decades.

The Graves Memorial Dispensary is located in the buildings of the department on North Broadway, between Ord and Alpine streets, which property extends from North Broadway to Castelar street. The street address of the main building is 737 North Broadway.

These buildings offer commodious and well equipped quarters for clinics which handle a total of more than thirty thousand patients yearly.

The Barlow Medical Library, adjacent to the college, has on file all the current American and foreign journals and textbooks.

There is in course of construction a modern hospital unit which will add greatly to the facilities of the dispensary.

At the Los Angeles County Hospital this department has access to about fifteen hundred beds for bedside instruction. Daily clinics are held at the County Hospital.

The practitioner can, therefore, spend the hours from 8 to 11 at the County Hospital; the hours from 12 until 3, or later, at the dispensary; and 4 to 5, at the Barlow Medical Library, which is attached to the institution.

The catalogue of the department covering the requirements for admission, fees, courses, etc., may be had by writing to the Dean of the department, Dr. George H. Kress, 245 Bradbury Building, Los Angeles, California.



**REGISTER—PART X**

**CALIFORNIA COLLEGE OF PHARMACY**

**ANNOUNCEMENT FOR 1917-18**

**MAY, 1917**



**University of California Bulletin**

**THIRD SERIES. Vol. X, No. 13**

**CALIFORNIA COLLEGE  
OF PHARMACY**

**ANNOUNCEMENT**

**FOR**

**1917-1918**

**MAY, 1917**

**SECOND AND PARNASSUS AVENUES**

**SAN FRANCISCO**

The Matriculation examinations for the session of 1917-18 for the two years' course (Graduate in Pharmacy) will be held at the College on Saturday, September 1, 1917, at 9 a.m.

Matriculation examinations for the three years' course (Pharmaceutical Chemist) and for the four years' course (Bachelor of Pharmacy), see page 8.

All communications should be addressed to the Dean, Professor FRANK T. GREEN, California College of Pharmacy, Second and Parnassus avenues, San Francisco, California.



## THE UNIVERSITY

The University comprises the following colleges and departments:

### I. IN BERKELEY

#### The Colleges of

Letters and Science,  
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, the Laboratory of Plant Pathology at Whittier, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, "Whitaker's Forest" in Tulare County, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,  
Mining,  
Civil Engineering,  
Chemistry.

#### The Schools of

Architecture,  
Commerce,  
Education,  
Jurisprudence,  
Medicine (first and second years).

The University Extension Division (offering instruction wherever classes can be formed or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction, giving guidance and suggestion to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

#### DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Education, Agronomy, Pomology, Landscape Gardening and Floriculture, Viticulture, Enology, Soils and Fertilizers, Agricultural Chemistry, Nutrition, Citriculture, Genetics, Experimental Irrigation, Animal Husbandry, Poultry Husbandry, Veterinary Science, Dairy Industry, Farm Mechanics, Entomology, Forestry, Horticulture, Parasitology, Plant Pathology, and Rural Institutions), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics, Education, English, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Jurisprudence, Latin, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Romanic Languages, Sanskrit, Semitic Languages, Slavic Languages, Zoology.

### **ANNOUNCEMENT, 1917-18**

---

N. B.—Those who wish to receive information regarding the matriculation requirements and an announcement are requested to forward their names and addresses to the Recorder of the Faculties, University of California, Berkeley, California.

Those who wish to receive information regarding advanced standing and the curriculum of the College of Dentistry are requested to forward their names and addresses to the Dean, College of Dentistry, Parnassus avenue and Arguello boulevard, San Francisco, California.

Beginning with the session of 1917-18, the College of Dentistry will inaugurate the four-year course as approved by the Dental Faculties Association of American Universities. For further particulars see page 15.

# REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

## REGENTS EX OFFICIO

His Excellency WILLIAM DENNISON  
STEPHENS  
Governor of California and President of  
the Regents  
Sacramento  
—, Lieutenant-Governor of California  
CLEMENT CALHOUN YOUNG, B.L.  
Speaker of the Assembly  
Shattuck av and Addison st, Berkeley  
EDWARD HYATT, B.S.  
State Superintendent of Public Instruction  
Sacramento

Hon. JOHN M. PERRY  
President of the State Agricultural  
Society  
10 W Weber av, Stockton  
LIVINGSTON JENKS, A.B., LL.B.  
President of the Mechanics' Institute  
807 Mechanics Institute bldg, San  
Francisco  
BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D.  
President of the University  
217 California Hall, Berkeley

## APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the board.

ISAIAH WILLIAM HELLMAN, Esq. (1918)  
Wells Fargo-Nevada National Bank, San  
Francisco  
Mrs. PHOEBE APPERSON HEARST (1930)  
Pleasanton  
Business address: 410 Hearst bldg, San  
Francisco  
ARTHUR WILLIAM FOSTER, Esq. (1932)  
1210 James Flood bldg, San Francisco  
GARRETT WILLIAM MCENERNEY, Esq.  
(1920)  
2002 Hobart bldg, San Francisco  
RUDOLPH JULIUS TAUSSIG, Esq. (1932)  
Main and Mission sts, San Francisco  
GUY CHAFFEE EARL, A.B. (1918)  
14 Sansome st, San Francisco  
JAMES WILFRED MCKINLEY, B.S. (1922)  
706 Security bldg, Los Angeles  
JOHN ALEXANDER BRITTON, Esq. (1930)  
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)  
Nevada Bank bldg, San Francisco  
WILLIAM HENRY CROCKER, Ph.B. (1924)  
Crocker National Bank, San Francisco  
PHILIP ERNEST BOWLES, Ph.B. (1922)  
American National Bank, San Francisco  
JAMES KENNEDY MOFFITT, B.S. (1924)  
First National Bank, San Francisco  
CHARLES ADOLPH RAMM, B.S., M.A., S.T.B.  
(1928)  
1100 Franklin st, San Francisco  
EDWARD AUGUSTUS DICKSON, B.L. (1926)  
1631 Cimarron st, Los Angeles  
JAMES MILLS, Esq. (1926)  
Hamilton City  
CHESTER HARVEY ROWELL, Ph.B. (1920)  
Fresno

## OFFICERS OF THE REGENTS

His Excellency William Dennison Stephens  
President  
Sacramento

Ralph Palmer Merritt, B.S.  
Comptroller  
220 California Hall, Berkeley

Victor Hendricks Henderson, B.L.  
Secretary and Land Agent  
104 California Hall, Berkeley.

Mortimer Fleishhacker, Esq.  
Treasurer  
Anglo-California Trust Company, San  
Francisco

Warren Olney, Jr., A.B., LL.B.  
Attorney  
1107 Merchants Exchange bldg, San  
Francisco

## STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1916-17\*

*Agriculture:*

Regents Foster, Dickson, Jenks, Mills,  
and Perry  
Regent Bowles, alternate

*Curriculum and Degrees:*

Regents Rowell, Moffitt, and C. S. Wheeler

*Finance:*

Regents Earl, Foster, Britton, Moffitt,  
Taussig, and, as Member Emeritus,  
Regent Hellman

*Grounds and Buildings:*

Regents Britton, Mrs. Hearst, Jenks,  
Bowles, and C. S. Wheeler

*Lick Observatory:*

Regents Ramm, McEnerney, Young, and  
Crocker

*Medical Instruction:*

Regents Crocker, Moffitt, Ramm, Dickson,  
and Taussig

*Scripps Institution for Biological Research:*

Regents Dickson, McKinley, and Hyatt.

*University Hospital:*

Regents Crocker, Taussig, Britton, Earl,  
and Moffitt

*Wilmerding School:*

Regents Taussig, Earl, and Moffitt

*Executive Committee:*

This committee consists of the chairmen  
of all standing committees

---

\* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

## CALIFORNIA COLLEGE OF PHARMACY

Organized 1872

---

### OFFICERS

President: GASTON E. BACON.

Treasurer: RICHARD E. WHITE. Secretary: HAYDN M. SIMMONS.

Dean: FRANKLIN THEODORE GREEN.

Directors: GASTON E. BACON, VAL SCHMIDT, ISAAC TOBRINER, RICHARD  
E. WHITE, W. BRUCE PHILIP, K. B. BOWEBMAN,  
CHARLES J. ABRAHAM.

---

### FACULTY

BENJAMIN IDE WHEELER, Ph.D., LL.D., Litt.D., President of the University  
of California.

FRANKLIN THEODORE GREEN, Ph.G., Professor of Chemistry, and Director  
of the Chemical Laboratories, and Dean.

FREDERICK WILLIAM NISH, Ph.G., Phar.B., Professor of Pharmacy, Director  
of the Pharmaceutical Laboratory.

ALBERT SCHNEIDER, M.D., Ph.D., Professor of Pharmacognosy, Economic  
Pharmaceutical Botany, Histology, and Bacteriology.

HENRY BENJAMIN CAREY, B.S., M.D., Professor of Botany, Materia Medica,  
and Physiology.

HAYDN MOZART SIMMONS, Ph.G., M.D., Associate Professor of Materia  
Medica, and Lecturer on Toxicology; Associate Professor of  
Pharmacy.

HARLEY RUPEET WILEY, A.B., LL.B., Instructor in Pharmacal Jurisprudence.

RICHARD JOHN DOWDALL, Ph.G., M.D., First Lieutenant, Officers Reserve  
Corps, Medical Department, U. S. A., Instructor in First Aid and  
Military Hygiene.

JAMES N. PATTERSON, Ph.C., Phar.B., Assistant in the Chemical Laboratory.

ROBERT ANDREW LEET, Ph.G., Lecturer on the Business Side of Pharmacy.

Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics, Education, English, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Jurisprudence, Latin, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Romanic Languages, Sanskrit, Semitic Languages, Slavic Languages, Zoology.

## II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

## III. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

## IV. IN SAN FRANCISCO

California School of Fine Arts;

Hastings College of the Law;

Medical School (third, fourth, and fifth years, including the University Hospital);

The George Williams Hooper Foundation for Medical Research;

College of Dentistry;

California College of Pharmacy;

The Museum of Anthropology, Archaeology, and Art.

## V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.

## VI. AT DAVIS

The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

## VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

## VIII. AT WHITTIER

The Laboratory of Plant Pathology.

## IX. AT LA JOLLA

The Scripps Institution for Biological Research.

## X. AT PACIFIC GROVE

The Herzstein Research Laboratory of Biology.

## XI. AT SWANTON

The Summer School of Surveying.

## COLLEGE OF DENTISTRY

## FACULTY

BENJAMIN IDE WHEELER, Ph.D., LL.D., Litt.D., President of the University and *ex officio* President of the Faculty.

GUY STILLMAN MILLBERRY, D.D.S., Professor of Dental Chemistry and Metallurgy, and Dean.

JAMES GRAHAM SHARP, M.D., D.D.S., Professor of the Principles and Practice of Surgery.

WILLIAM FULLER SHARP, D.D.S., D.M.D., Professor of Clinical Prosthodontia.

JOSEPH DUPUY HODGEN, D.D.S., Professor of Histology and Dental Pathology.

GEORGE LUSK BEAN, D.D.S., Professor of Dental Porcelain.

ALLEN HOLMAN SUGGETT, B.S., D.D.S., Professor of Orthodontics.

JEAN V. COOKE, A.B., M.D., Assistant Professor of Pathology.

EDWIN HENRY MAUK, D.D.S., Professor of Prosthetic Dentistry.

M. THAYNE RHODES, D.D.S., Assistant Professor of Clinical Operative Dentistry.

## INSTRUCTORS, DEMONSTRATORS, LECTURERS

HENRY BENJAMIN CAREY, B.S., M.D., Instructor in Anatomy and Histology, Materia Medica, and Therapeutics.

ROBERT EDGAR KEYS, D.D.S., Librarian.

LOUIS BARTLETT, Ph.B., LL.B., Lecturer in Dental Jurisprudence.

OTTO P. ROLLER, D.D.S., Special Instructor in Dental Porcelain.

HERBERT TURBITT MOORE, A.B., D.D.S., Lecturer on Surgery.

MALCOLM GODDARD, B.S., D.D.S., Instructor in Comparative Anatomy.

JOHN EDWIN GURLEY, D.D.S., Instructor in Dental Chemistry.

GEORGE R. HUBBELL, M.D., Instructor in Radiography.

CLARK R. GILES, D.D.S., Instructor in Oral Anesthesia.

STANLEY LOFTUS DOD, D.D.S., Instructor in Dental Pathology and Therapeutics.

CARL LESLIE HOAG, M.D., Instructor in Physiology, for one half-year.

GEORGE W. SIMONTON, D.D.S., Assistant in Physiology, for one half-year.

SAXON BIRD SCOTT, D.D.S., Assistant in Dental Porcelain.

JACOB FREDERIC STEFFAN, D.D.S., Clinical Instructor in Operative Dentistry.

FRANCIS VANCE SIMONTON, D.D.S., Instructor in Operative Dentistry.

HUBERT HEITMAN, D.D.S., Clinical Instructor in Operative Dentistry.

CHARLES BERNARD MUBANTE, D.D.S., Clinical Instructor in Dentistry.

WILLIAM HENRY HANFORD, D.D.S., Instructor in Extracting.

CHARLES S. MCCOWEN, D.D.S., Clinical Instructor in Orthodontics.

EARL LEO MCGLASHAN, D.D.S., Instructor in Orthodontic Technique.

HENRY OTTO EGERT, D.D.S., Clinical Instructor in Operative Dentistry.

HOMER LASH SAMS, D.D.S., Clinical Instructor in Extracting.

WILLIAM CARL WRIGHT, D.D.S., Assistant in Dental Porcelain.

OLIVER AMBROSE HABERDIER, D.D.S., Assistant in Prosthetic Dentistry.

FRANK CABUL BETTENCOURT, D.D.S., Assistant in Clinical Prosthetic Dentistry.

ARNOLD LEWIS MORSE, D.D.S., Assistant in Clinical Operative Dentistry.

ADAH ROBERTA HOLMES, A.B., Research Assistant in Dental Pathology.

FRANCIS WAYLAND EPLEY, A.B., Assistant in Radiography and Photography.

HARRY JAMES MATHIEU, D.D.S., Demonstrator in Clinical Prosthodontia.

HORACE IRVING SPARE, D.D.S., Demonstrator in Clinical Dental Pathology.

**CALENDAR FOR 1917-18**

\*Summer Session of the Academic Colleges—June 25 to August 4, at Berkeley.

Applications for Admission and credentials of the recommended graduates of accredited high schools to be filed with the Recorder of the Faculties—Monday, August 6.

Examinations for Admission—Thursday, August 9, to Tuesday, August 14, at Berkeley.

†Examinations for Removal of Conditions—Wednesday, August 15, to Saturday, August 18.

Registration Day—Monday, August 20. New students register at Berkeley, Friday, August 17.

Beginning of Term—Tuesday, August 21.

Thanksgiving Vacation—Thursday, November 29, to Saturday, December 1.

Mid-year Examinations—Wednesday, December 19, to Saturday, December 22.

Christmas Vacation—Sunday, December 23, to Saturday, January 5.

†Examinations for the Removal of Conditions—Monday, January 7, to Saturday, January 12.

Charter Day, University of California—Saturday, March 23. Charter Day Exercises at Berkeley.

Senior Examinations in Infirmary—Monday, April 8, to Saturday, April 27.

Senior Examinations—Monday, April 29, to Saturday, May 4.

Junior and Freshman Examinations—Monday, May 6, to Saturday, May 11.

End of Term—Saturday, May 11.

The Fifty-fifth Commencement—Wednesday, May 15.

Special Clinical Course—May 20 to August 20.

---

\* For information regarding the Summer Session address the Recorder of the Faculties, University of California, Berkeley, California.

† Students not appearing at this time will be subject to a charge of \$5 for a special examination.

The College Entrance Examination Board (Secretary's Office, 431 West 117th street, New York, N. Y.) is authorized to examine candidates for admission to the College of Dentistry, University of California, in states other than California.



## HISTORY

In compliance with a recommendation from the Medical Faculty of the University, submitted May 28, 1881, the Regents, by an Act of September 7, 1881, organized the College of Dentistry as an integral part of the University of California.

The college was originally given accommodations in the Medical Hall of the University, and through the generous offer of the Medical Faculty provision was made for lecture and clinic room. From 1891 to 1906 it occupied quarters in the Donohue Building, at the corner of Market and Taylor streets, San Francisco, where the infirmary was located until 1906. In 1906 the infirmary was removed to the college building on Parnassus avenue and Arguello boulevard, where all the departments of the college are now conducted, and all departments have been newly and fully equipped by an appropriation of the State Legislature to the University of California for that purpose.

The progress of dentistry in recent times has given it rank among the liberal professions, and the permanent establishment of the College of Dentistry provides, at the least expense to candidates, the needed preparation for the responsibilities of its practice.

## LOCATION AND EQUIPMENT

The College of Dentistry occupies the most eastern of the four professional college buildings situated on Parnassus avenue and Arguello boulevard, San Francisco, California.

Since the College of Dentistry has been located in its present building there has been a slow and steady growth in student enrollment. This is attributed to the ever increasing demand for good dental service on the part of the laity, and the high educational standards of the University. The school has outgrown its present accommodations and equipment. In February, 1916, the Regents of the University advanced \$30,000 to the College of Dentistry to provide additional infirmary and laboratory space and new equipment.

In the main, very slight modifications of the present building have been made to provide better teaching facilities; the principal changes include a three-story addition to house a new type of individual equipment. Contrary to the custom adopted in many leading dental schools, the College of Dentistry of the University of California endeavors to teach in a practical way methods of office practice, so that the graduate will be equipped with such practical knowledge as will enable him to conduct an office practice successfully should he chose to establish himself immediately after graduation.

The practical instruction, which includes making examinations of the mouths of patients, arranging for appointments, collecting fees, and keeping the professional and financial records as well as performing the operations necessary to putting the oral cavity in good condition, is supplemented by didactic instruction in this subject during the third year.

Pursuant to this plan a new type of equipment has been purchased with the view of individualizing the student's activities. The S. S. White Unit with electric motors is supplied, rather than the former type of fountain cuspidor and the foot engine. Individual operating cabinets designed especially for this school, large enough to contain all operating equipment and accessories and providing full working table space, are used instead of instrument cases and stands. The student is thus provided with the facilities for all operative work in a given location without being obliged to distribute his equipment in different parts of the building for safe keeping. Unquestionably this policy will enable the student to use his time to a greater advantage.

Similarly the prosthetic laboratory is equipped with individual types of laboratory benches to facilitate laboratory work as well as to provide ample space for prosthetic equipment and a means of efficiently and securely storing it in the briefest time possible. Both the operating cabinets and the laboratory benches are designed after the types used in dental offices today; thus the student becomes familiar with office equipment before graduation.

Twenty-five new units, modern dental chairs, and operating cabinets have been added to the present infirmary equipment, which will provide ample teaching facilities for some time to come. The installation of this equipment means a saving of approximately \$50 to each student thus assigned; in order to keep this equipment in good order, a rental and depreciation fee of \$5 will be charged to each student.

The facilities for teaching prosthetic dentistry and dental porcelain have been materially improved, providing better equipment and light in both the laboratories and infirmary.

In the departments of oral surgery and dental pathology, in addition to the well equipped rooms, extracting and radiographic rooms, there has been provided a research laboratory for investigating the general problems presented in these two important departments.

Radiography and photography, being of special value in all teaching, are being developed to meet the demands made upon these special fields of science by all the departments.

Clinical practice in orthodontics is required so that the student may learn to observe personally the results of this practice. Local anesthesia in all its phases, including conductive and infiltrative, is likewise required.

In fact, each department demands that clinical work of a satisfactory character shall be expected of each student qualifying for a degree.

Clinical material of every variety is abundant, the school being unable to care for all the cases that present themselves for treatment, and this affords ample opportunity for student practice in all branches of dentistry.

Students must provide themselves with white dental operating gowns of an approved type before being permitted to operate in the infirmary.

---

### ADMISSION

#### Requirements for Admission.

Applicants for admission to the College of Dentistry must be at least sixteen years of age, must give satisfactory references concerning moral character, and must, by examination or by certificates which shall be satisfactory to the faculty, give evidence of proficiency in the work of an acceptable four-year high school course, that is, 45 units of preparatory work distributed as follows:

Physics (subject 11) or Chemistry (subject 12b) .....	3 units
Electives (which may include not to exceed 9 units chosen from subjects 18-21 or from high school subjects not listed by the University) .....	42 units
Total .....	45 units

Credit for these 45 units must be obtained either by examination or by diplomas and recommendations from accredited high schools in accordance with general University regulations governing examinations and recommendations.

Any applicant who is qualified for admission to the academic colleges of the University as regular student or student at large is qualified for admission to the College of Dentistry, provided his matriculation credits include physics or chemistry. The degree D.D.S. is conferred only upon persons who are twenty-one years of age.

Applications for admission should be made at the office of the Recorder of the Faculties, California Hall, Berkeley, California. Applications may be sent by mail. Information concerning the list of preparatory subjects, matriculation examinations, recommendations, dates for application and other matters is contained in the Circular of the Academic Departments to be obtained, on request, from the Recorder.

## LIST OF PREPARATORY SUBJECTS

*Units of Credit.*—The amount of work represented both by preparatory or high school subjects and by the University courses is specified quantitatively. In the University a unit signifies one hour per week of recitation or lecture, with preparation therefor, during one half-year. A course of study taken in the preparatory school for one year at five periods per week is valued at 3 units. Laboratory hours not requiring preparation are estimated at a lower rate than recitations and lectures.

	Units		Units
*A. English Expression .....	....	12f. Physiology .....	3
1. English, elem. ....	6	12g. General Science .....	3
2. Plane Geometry .....	3	13a. History, Med., Mod., etc. ....	3
3. Elementary Algebra .....	3	13b. History, English .....	3
†4a <sup>1</sup> . Algebraic Theory, I .....	1½	14a. English, adv. ....	3
†4a <sup>2</sup> . Algebraic Theory, II .....	1½	14b. English, adv. ....	3
†4b. Solid Geometry .....	1½	15a <sup>1</sup> . 1 yr. of 15a <sup>2</sup> .....	3
5. History and Government of the U. S. (1 year) or His- tory of the U. S. alone (1 year) .....	3	†15a <sup>2</sup> . French, elem. ....	6
6a. Caesar .....	3	†15a <sup>3</sup> . French, intermed. ....	3
6b. Latin Comp., elem. ....	3	†15a <sup>4</sup> . French, adv. ....	3
6ab <sup>1</sup> . 1 yr. of 6ab .....	[3	15b <sup>1</sup> . 1 yr. of 15b <sup>2</sup> .....	3
†7a. Cicero .....	2	†15b <sup>2</sup> . German, elem. ....	6
†7b. Virgil .....	2	†15b <sup>3</sup> . German, intermed. ....	3
†7c <sup>1</sup> . Latin Comp., adv. ....	1	†15b <sup>4</sup> . German, adv. ....	3
†7c <sup>2</sup> . Latin Comp., adv. ....	1	15c <sup>1</sup> . 1 yr. of 15c <sup>2</sup> .....	3
†8a. Elementary Greek .....	3	†15c <sup>2</sup> . Spanish, elem. ....	6
†8b. Attic Prose .....	3	†15c <sup>3</sup> . Spanish, intermed. ....	3
†9a. Attic Prose, adv. ....	1½	†15c <sup>4</sup> . Spanish, adv. ....	3
†9b. Homer .....	1½	†16. Free-hand Drawing .....	3
10. History, Ancient, etc. ....	3	†17. Geometrical Drawing .....	3
11. Physics .....	3	18a. Mechanical Arts .....	1½-9
†12a <sup>1</sup> . Synthetic Proj. Geometry ..	1½	18b. Applied Art .....	1½-3
†12a <sup>2</sup> . Plane Trigonometry .....	1½	18cde. Home Economics .....	1½-9
†12a <sup>3</sup> . Plane Analytic Geometry....	1½	19. Agriculture .....	1½-9
12b. Chemistry .....	3	20a. Economic Geography .....	1½
12c. Botany .....	3	20b. Commercial and Industrial History .....	3
12d. Zoology .....	3	20c. Bookkeeping .....	3
12e. Physical Geography .....	3	20d. Stenog. and Typewriting ..	3 or 6
		21. Music .....	3-9

\* SUBJECT A. English expression. (See page 14.)

† The dagger indicates subjects for which equivalent courses are offered in the University. For further description of these courses reference should be made to the annual ANNOUNCEMENT OF COURSES.

Subjects 6ab<sup>1</sup>, 15a<sup>1</sup>, 15b<sup>1</sup>, and 15c<sup>1</sup> represent the minimum credit in Latin, French, German and Spanish, respectively—one year of high school work. Such credit is ordinarily given only upon recommendation, not upon examination.

## MATRICULATION GROUP I

While students are admitted to the College of Dentistry, as stated above, without specific prescription of preparatory subjects, excepting physics or chemistry, the high school studies should, if possible, be planned in accordance with matriculation group I of the academic colleges, as follows:

The requirements for complete matriculation in the College of Letters and Science and the College of Commerce are as follows:

ENGLISH, two years .....	6 units
(Subject 1.)	
MATHEMATICS, two years .....	6
Plane Geometry (2)* and Elem. Algebra (3).	
FOREIGN LANGUAGES, two years .....	6
Any one of, or any combination from, the following:	
Latin (6)†, Greek (8), French (15a), German (15b), Spanish (15c).	
HISTORY, one year .....	3
U. S. (5), or Ancient (10), or Medieval and Modern (13a), or English (13b).	
NATURAL SCIENCE (taken with laboratory work in classes of third- and fourth-year pupils), one year .....	3
Physics (11)†, or Chemistry (12b)†, or Botany (12c), or Zoology (12d), or Physiology (12f).	
ADDITIONAL .....	6
Any combination from the following:	
Advanced mathematics (4a, 4b, 12a).	
Additional foreign language, ancient or modern (6, 7, 8, 9, 15).	
Additional laboratory science taken in classes of third- and fourth-year pupils (11, 12b, 12c, 12d, 12f).	
ELECTIVE .....	15
(These may include not more than 9 units chosen from subjects 18 to 21 and high school subjects not listed by the University.)	
Total .....	45 units

The candidate for admission must have chosen his preparatory subjects in such a way as to have a total of 12 units of subjects designated as

\* The numbers in parentheses refer to the matriculation subjects listed on a preceding page; for example, 2 is plane geometry.

† The University does not offer courses equivalent to subject 6 (elementary Latin). This subject must be taken in the high school, if at all. Elementary physics and elementary chemistry are offered in the summer session of the University, but not in the fall or spring sessions.

"advanced" subjects. Advanced subjects are as follows: 4a, 4b, 5, 7, 9, 11, 12 (excluding sciences given in the first and second years of the high school), 13b, 14, 15a<sup>1</sup>, 15a<sup>2</sup>, 15b<sup>1</sup>, 15b<sup>2</sup>, 15c<sup>1</sup>, 15c<sup>2</sup>.

*Admission with Deficiencies.*—The question of admitting an applicant to the University with matriculation deficiencies is decided in each case by the Academic Senate or its committees upon the merits of the case. In general, applicants with less than forty-five units of matriculation credit are not admitted.

*English.*—First-year students in the College of Dentistry will be required to pass the regular university examination in Subject A or to complete a three-unit course in English or rhetoric. The examination in Subject A is given at Berkeley in January and September of each year. The next examination will be held Saturday, September 1, 1917. Further information concerning Subject A may be obtained from the Recorder of the Faculties at Berkeley. Students who plan to take a course in English or rhetoric should consult the Dean of the College of Dentistry at the time of matriculation.

#### ADMISSION FROM SCHOOLS OUTSIDE OF CALIFORNIA

Students who desire to matriculate from states other than California will be accepted upon presenting an admission certificate from any of the Dental schools holding membership in the Dental Faculties Association of American Universities.

The schools holding membership in this association are: Harvard University Dental School, University of Pennsylvania School of Dentistry, University of Michigan School of Dentistry, University of Iowa School of Dentistry, University of Minnesota School of Dentistry, University of California College of Dentistry, and Washington University Dental School.

Students may be admitted to advanced standing from other dental schools (1) upon presenting a certificate issued by the Committee on Credentials at Berkeley showing that the applicant has had scholastic preparation equivalent to that demanded for admission to the University of California; and (2) on presenting credentials for the first or second year's work, which must be approved by the faculty of the College of Dentistry.

#### SUMMER SESSION COURSES

At present there is opportunity during the Summer Session for students to do systematic work in preparation for matriculation in the following courses:

Chemistry A, the equivalent of matriculation subject 12b.

Drawing CD, the equivalent of matriculation subject 17. (Instrumental Drawing.)

French A, the equivalent of matriculation subject 15a<sup>1</sup>.

French B, the equivalent of matriculation subject 15a<sup>2</sup>.

German A, the equivalent of matriculation subject 15b<sup>1</sup>.

German B, the equivalent of matriculation subject 15b<sup>2</sup>.

Graphic Art A, the equivalent of matriculation subject 16. (Free-hand Drawing.) Credit only upon passing examination.

Mathematics A, the equivalent of matriculation subject 4a<sup>1</sup>. (Algebraic Theory, I.)

Mathematics F, the equivalent of matriculation subject 4a<sup>2</sup>. (Algebraic Theory, II.)

Mathematics B, the equivalent of matriculation subject 4b. (Solid Geometry.)

Mathematics C, the equivalent of matriculation subject 12a<sup>2</sup>. (Trigonometry.)

Physics A, the equivalent of matriculation subject 11.

Spanish A, the equivalent of matriculation subject 15c<sup>1</sup>.

Spanish B, the equivalent of matriculation subject 15c<sup>2</sup>.

Stenography and Typewriting, the equivalent of matriculation subject 20d.

Zoology A1, the equivalent of matriculation subject 12d.

The normal amount of credit obtainable during the session is six units.

#### FOUR-YEAR COURSE

Beginning with the session of 1917-18, the course of study will be changed from three years of thirty-two weeks each to four years of thirty-two weeks each. Climatic conditions in California make it possible to arrange the schedule so as to provide sixteen weeks of instruction before the mid-winter holidays, and the same period afterward. The early seasons in horticulture and agriculture happily approximate the long vacation periods, so that students who are obliged to devote this time to revenue-producing labor usually have no difficulty in obtaining employment. A tentative schedule is included (see pp. 20-27)

#### FURTHER INFORMATION

For further information concerning the preparatory subjects, matriculation examinations, admission to advanced standing and the requirements for the Junior Certificate and the Bachelor's Degree refer to the Circular of Information concerning the Academic Departments, copies of which may be obtained from the Recorder of the Faculties, University of California, Berkeley, California.

**FOREIGN STUDENTS**

Students desiring to matriculate in this college from foreign countries will be permitted to substitute satisfactory courses in history, law, language and literature in lieu of similar preliminary requirements offered by high schools accredited to the University of California. A knowledge of English sufficient to comprehend the course of study will be required, in all cases to be determined by the official examiner.

**ADMISSION TO ADVANCED GRADES ON CERTIFICATES**

The college will receive into the advanced grades of second year and third year only such students as hold certificates of having passed examinations in the studies of the first-year or second-year grades respectively in a school which demands the same or higher preliminary educational requirements and maintains the same curriculum; except that a student who presents satisfactory evidence of graduation from a reputable medical college may be given such advanced standing as his previous training may justify, provided he make up the prescribed subjects in which he may be deficient.

All students who have successfully passed their examinations for advanced standing and have complied with all the rules of the College of Dentistry shall have their reports given or mailed to them within thirty days after such examinations shall have been completed, such reports to be pledges to any college to whom the holders may apply that the requisite number of terms have been spent in the College of Dentistry, University of California.

**THE MASTER'S DEGREE**

Bachelor of Arts or Sciences of this University who are pursuing regular courses leading to a degree in the College of Dentistry may receive a master's degree (M.A. or M.S.) under the following conditions:

(a) The candidate must have finished creditably two years in the curriculum of the professional college.

(b) He must have received credit, in addition to his work for the professional degree, for a seminar or research course of the value of four units; and such seminar or research course must be approved by the Graduate Council; and he must present a dissertation or thesis, subject to the usual regulations for the master's degree.



**EXTRACTS FROM REGULATIONS**

The following are the regulations governing undergraduate attendance, except such as are given elsewhere in this announcement.

**ATTENDANCE**

Eighty per cent of attendance will be required in all lecture and laboratory courses, as well as in general attendance.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such a way as the instructor may determine, that he is performing the work of the course in a systematic manner.

Any instructor, with the approval of the Dean, may at any time exclude from his course any student who, in his judgment, has neglected the work of the course. Any student thus excluded shall be recorded as having failed in the course of study from which he is excluded, unless the faculty shall otherwise determine.

**EXAMINATIONS**

No student will be excused from assigned examinations.

No book, manuscript or other source of information shall be brought into any examination room, except by the explicit order of the examiner. Nor shall any student, in the course of an examination, have any communication with another student for any reason whatever.

Any student tardy at an examination will be debarred from taking it, unless an excuse for such tardiness entirely satisfactory to the examiner be rendered.

A fee of five dollars is charged for every special examination. Any supplementary or deferred test required by an instructor of a student for the purpose of making up a course left "incomplete" is regarded as a special examination. Students taking two or more such examinations in courses taken during any one half-year will be charged not to exceed ten (10) dollars for all such examinations, instead of being charged at the rate of five dollars for each examination.

**GRADES OF SCHOLARSHIP**

The results of examinations, together with term work when a record of the latter is kept, will be ranked and reported to the Recorder in five grades. The first grade denotes marked excellence. The second grade indicates that the student's work has been thoroughly satisfactory. The third grade denotes a pass. Courses in which students have obtained a fourth grade will not be credited to them, except upon the condition of

passing a re-examination. The fifth grade indicates a failure and the necessity of repeating not only the examinations of the course but also the regular work, in accordance with these regulations. The report in case of absence from an examination, or of failure to perform any of the allotted tasks in a given course, is incomplete. Work so reported must be made up within a year.

Re-examinations are permitted only for the purpose of removing deficiencies. Students who have received second grade or third grade in a given course are not allowed re-examinations for the purpose of improving their grading.

#### CONDITIONS AND FAILURES

For the removal of conditions, students shall have the privilege of taking the regular mid-year or annual examinations in the subjects in which they are conditioned. Examinations may be held at other times only by special permission of the Academic Senate and on payment of a fee of five dollars.

Opportunity for the removal of matriculation deficiencies is offered at the entrance examinations each year in August and January.

Any undergraduate student who is reported as having failed in an examination, or who, after being conditioned, does not pass the re-examination for the removal of the condition, will be required to repeat every such deficient subject with the class that next takes it; unless, on recommendation of the officer of instruction in charge, the faculty shall permit him to review a subject in which he is thus deficient with the assistance of an acceptable private tutor.

By resolution of the faculty, students who have failed to remove conditions by re-examination in August, provided such conditions exceed three or whose failures exceed one in number, will not be recommended for promotion.

#### LEAVE OF ABSENCE

Prolonged leave of absence must be sought by written petition to the Dean, and the petition must specify the length of time (not more than a year) and the reason for which the leave is desired. An indefinite leave of absence will in no case be granted.

A student must apply for leave to be absent or excuse for having been absent from any college exercise other than examination to the officer of instruction in charge of such exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for one day or several days, in which case the Dean will issue a written excuse of leave. Leave to be absent from an examination must be sought by written petition to the proper officer of instruction.

Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

When any student shall have been continuously absent from his classes for two consecutive weeks, without official leave of absence, the Dean shall notify his parents or guardian that he will be dropped from the roll of the college should not satisfactory explanation of the absence be forthcoming within two weeks.

Students incapacitated by illness or for other good cause (to be determined by the faculty) may receive credit in lieu of attendance, upon presentation of certificate of physician in charge.

#### DISCIPLINE

The University authorities expect all students to set and observe among themselves a proper standard of conduct. It is therefore taken for granted that, when a student enters the University, he has an earnest purpose and studious and gentlemanly habits; and this presumption in his favor continues until, by neglect of duty or ungentlemanly behavior, he reverses it. But if an offense occurs, whether it be against good behavior or academic duty, the University authorities will take such action as the particular occurrence, judged in the light of the attendant circumstances, may seem to them to require. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

*Grades of Censure.*—Censure will be expressed in the four grades of probation, suspension, dismissal, and expulsion. Probation indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, and with the presumption that the student's connection with the University will be ended by it. Expulsion is the highest academic censure, and is final exclusion of the student from the University.

*Students Must Obey Laws.*—All students in this college shall obey the laws regulating the practice of dentistry, or upon failure to do so shall subject themselves to the rules of discipline as above.

**COURSE OF STUDY**  
**FRESHMAN SCHEDULE**  
**FIRST HALF-YEAR**

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Drawing Lecture	Hygiene Lecture	Modeling Lecture	Inorganic Chemistry Lecture	Hygiene Recitation	
9		Applied Physics Lecture	Laboratory Period	Applied Physics Recitation		Applied Physics Laboratory
10	Anatomical Drawing	Applied Physics Laboratory	Carving	Applied Physics Laboratory	Modeling  Laboratory Period	
11	Mechanical Drawing			4th Thursday Student Body Meeting		
1		Biology Lecture	Biology Lecture	Biology Lecture		
2	Chemistry Recitation and Laboratory Periods Sections	Biology Laboratory	Biology Laboratory	Biology Laboratory	Chemistry Recitation and Laboratory Periods Sections	
3						
4						
5						

SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Dental Anatomy Lecture	Prosthetic Technic Lecture	Dental Anatomy Recitation	Inorganic Chemistry Lecture		Prosthetic Technic Recitation
9		Prosthetic Technic Laboratory	Dental Anatomy Carving	Prosthetic Technic Laboratory	Dental Anatomy Modeling	
10	Dental Anatomy Drawing			4th Thursday Student Body		
11						
1						
2	Chemistry Recitation and Laboratory Periods Sections	Osteology Anatomy and Histology	Osteology Anatomy and Histology	Osteology Anatomy and Histology	Chemistry Recitation and Laboratory Periods Sections	
3						
4						
5						

**SOPHOMORE SCHEDULE**  
**FIRST HALF YEAR**

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Operative Technic Recitation	Metallurgy Lecture	Prosthetic Dentistry Lecture	Metallurgy Recitation	Operative Technic Lecture	Prosthetic Dentistry Recitation
9	Operative Technic Laboratory	Metallurgy Laboratory	Prosthetic Dentistry Laboratory	Metallurgy Laboratory	Operative Technic Laboratory	Prosthetic Dentistry Laboratory
10				4th Thursday Student Body Meeting		
11				Anatomy, Head and Neck	Physiology and Physiological Chemistry	
1						
2	Physiology and Physiological Chemistry	Anatomy, Head and Neck	Anatomy, Head and Neck			
3						
4						
5						

SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Operative Dentistry Recitation	Organic Chemistry	Prosthetic Dentistry Lecture	Organic Chemistry	Operative Dentistry Lecture	Prosthetic Dentistry Recitation
9						
10	Operative Technic Laboratory	Bacteriology and Pathology	Infirmity Prophylaxis Prosthetic Dentistry	Bacteriology and Pathology	Operative Technic Laboratory	Prosthetic Dentistry Laboratory
11				4th Thursday Student Body Meeting		
1	Mouth Hygiene Lecture					
2						
3		Prosthetic Laboratory	Bacteriology and Pathology	Prosthetic Dentistry Laboratory	Bacteriology and Pathology	
4						
5						

**JUNIOR SCHEDULE  
FIRST HALF-YEAR**

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8		Orthodontics Lecture	Crown and Bridge Lecture	Orthodontics Recitation	Dental Pathology Recitation	
9	Operative and Prosthetic Dentistry Infirmary					Operative Dentistry Children's Clinic
10		Orthodontic Technic Laboratory	Crown and Bridge Technic Laboratory		Dental Pathology Clinic	
11				4th Thursday Student Body Meeting		
1		Dental Histology Laboratory		Dental Histology Laboratory		
2						
3	Operative Dentistry Infirmary	Material Medica Lecture	Operative Dentistry Clinic		Crown and Bridge Technic Laboratory	
4		Dental Histology Lecture		Material Medica Recitation		
5						



SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8		Radiography Lecture		Radiography Recitation	Dental Pathology Recitation	
9	Prosthetic Dentistry Infirmary		Porcelain Technic Laboratory			Operative Dentistry Children's Clinic
10		Radiography Laboratory Sections			Dental Pathology Clinic	
11				4th Thursday Student Body Meeting		
1						
2						
3	Operative Dentistry Infirmary				Comparative Odontology	
4		Dental Histology				
5		Pharmacology and Toxicology		Pharmacology and Toxicology		

**SENIOR SCHEDULE  
FIRST HALF-YEAR**

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8		Clinical Prosthodontia Sections	History and Economics	Clinical Prosthodontia	Principles of Surgery Lecture	Extracting
9	Jurisprudence and Commercial Law	Local Anesthesia and Minor Surgery Sections	Dental Porcelain	4th Thursday Student Body Meeting	Oral Surgery Lecture and Clinic	Anesthesia
10						Physical Diagnosis Sections
11	Prosthetic Laboratory					
1		Operative Dentistry Infirmary	Extracting Sections		Operative Dentistry Infirmary	
2	Prosthetic Laboratory or Hospital Practice		Clinical Dental Pathology	Operative Dentistry Infirmary		
3			Orthodontic Clinic			
4		Dental Pathology Lecture				
5						

## SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8			History and Economics		Principles of Surgery Lecture	
9	Prosthetic Laboratory	Clinical Prosthodontia Local Anesthesia and Minor Surgery Sections	Dental Porcelain	Clinical Prosthodontia	Oral Surgery Lecture and Clinics	Extracting Anesthesia and Physical Diagnosis Sections
10				4th Thursday Student Body Meeting		
11						
1						
2			Extracting Sections	Operative Dentistry	Operative Dentistry Infirmary	
3	Prosthetic Laboratory or Hospital Practice	Operative Dentistry Infirmary	Clinical Dental Pathology			
4			Orthodontic Clinics	Dental Porcelain Infirmary		
5						
6		Dental Pathology Lecture				

**TEXTBOOKS**

Students are advised to defer purchasing textbooks until they meet the various professors and instructors in the classroom and are instructed definitely as to the books required in the different departments.

Arrangements have been made with the various publishing houses whereby all text and references can be ordered through the college office and delivered in the shortest possible time.

Operative Dentistry—Text, G. V. Black, two volumes, \$10; references: Johnson, Kirk.

Prosthetic Dentistry—Text, Turner, \$6, or Prothero, \$8; references: Wilson, Haskell.

Dental Porcelain—Text, Byram, \$2.

Crown and Bridge Work—References: Peeso, Goslee, Evans.

Dental Anatomy—Text, Black, \$2.50; references: Kirk, Broomell.

Oral Surgery—Text, Blair, \$5; references: Brophy, Brown, Marshall.

Orthodontics—Text, Lischer's, \$2.75; references: Angle, Dewey, Case, Guilford, C. N. Johnson, latest edition.

Chemistry—Text, Simon, \$3; references: Holland, Remsen.

Dental Metallurgy—Text, Hodgen, \$2.50; references: Roberts, Austen.

Dental Pathology and Therapeutics—Text, G. V. Black (Seniors), \$6; lecture notes, Tufts, (Juniors), \$1; references: Burchard, Prinz, Buckley.

General Pathology—Text, Stengel, \$5.

Bacteriology—Jordan, \$3; or Hiss and Zinsser.

Materia Medica—Text, Prinz, \$3.50; references: Long, Butler, Buckley.

Physiology—Text, Howell, \$4; references: Tigerstedt, tr. by Murlin, Kirks, 20th ed.

Anatomy—Text, Buchanan, \$6.50; Gray, Cunningham, Morris.

Histology—Text, Bailey, 2nd ed., \$3.50.

Comparative Anatomy of the Teeth—Thompson, Osborn, The Evolution of Mammalian Molar Teeth.

Dictionary—Gould, \$1; Dorland, Harris, Dungleson, Stedman.

### REQUIREMENTS FOR GRADUATION

The candidate for the degree of Doctor of Dental Surgery must have attained the age of twenty-one years, and must be of good moral character.

He must complete all technic work prescribed throughout the course, perform all operations, treat all cases, insert the required number of artificial dentures, crowns and pieces of bridgework required by the respective professors. All this must be done in the college building and exclusively by the applicant for the degree. He must have conformed to all the rules of the college and paid all fees. He must pass a satisfactory examination—oral, written, and practical. When these requirements have been complied with, he will be recommended to the Board of Regents for the degree of Doctor of Dental Surgery.

---

### EXTRACTS FROM THE LAW REGULATING THE PRACTICE OF DENTISTRY IN CALIFORNIA

SECTION 1. It shall be unlawful for any person to engage in the practice of dentistry in the State of California, unless said person shall have obtained a license from a board of dental examiners, duly authorized and appointed under the provisions of this Act to issue licenses; *provided*, that this Act shall not affect the right under the laws of the State of California of dentists to practice dentistry who have lawful right to practice dentistry at the time of the passage of this Act, and no dentist shall be exempt from paying an annual license tax, as hereinafter provided. [*Amendment of 1909.*]

SEC. 8. Said board shall examine all applicants for examination who shall furnish satisfactory evidence of having complied with the provisions of this Act relating to qualification for examination, together with the payment of the fee provided for in section 12 of this Act. The examination of applicants shall be sufficiently thorough to test the fitness of the candidate to practice dentistry. It shall include, written in the English language, questions on the following subjects: anatomy, physiology, chemistry, materia medica, therapeutics, metallurgy, histology, pathology, operative and prosthetic dentistry, oral surgery and orthodontia; the answers to which shall be written in the English language. Said written examination may be supplemented by an oral examination. Demonstrations of the applicant's skill in operative and prosthetic dentistry must also be given. All persons successfully passing such examinations shall be registered as

licensed dentists on the board register, as provided in section 3, and shall be granted by the board a license to practice dentistry in the State of California, which license is subject to renewal, as hereinafter provided. In no case shall any applicant be examined or given a license who is not twenty-one years of age. [*Amendment of 1909.*]

SEC. 9. Any member of the board may inquire of any applicant for examination concerning his character, qualifications or experience, and may take testimony of any one in regard thereto, under oath, which he is hereby empowered to administer.

SEC. 12. No person shall be eligible for examination by the State Board of Dental Examiners who shall not furnish satisfactory evidence of having graduated from a reputable dental college, which must have been indorsed by the Board of Dental Examiners of California, or who shall not furnish to said Board of Examiners a certificate from the State Board of Dental Examiners, or similar body, of some other state in the United States, showing that he or she has been a licensed practitioner of dentistry in that state for at least five (5) years; *provided*, that every person actually engaged as an apprentice to a regularly licensed dentist in the State of California at the time of the passing of this Act shall be eligible for examination, if, within thirty (30) days after the passage of this Act, he shall file with the secretary of the board an affidavit stating his name, age, the length of time for which he has been actually apprenticed and with whom; and who, at the time of his application for examination, shall show to the satisfaction of the board that he has served an apprenticeship of at least four (4) years and is a graduate from a high school or similar institution of learning in this or some other state of the United States requiring a three (3) years' course of study; *and provided*, that no examination shall be given to an applicant claiming the right to take the same as an apprentice later than June, 1913. [*Amendment of 1909.*]

SEC. 15. Any person shall be understood to be practicing dentistry within the meaning of this Act who shall display a sign or in any way advertise himself as a dentist, or who shall, for a fee, salary or reward, paid directly or indirectly either to himself or to some other person, perform an operation of any kind upon, or treat diseases or lesions of, the human teeth or jaws, or correct malimposed positions thereof; but nothing in this Act contained shall prohibit bona fide students of dentistry from operating in the clinical departments of the laboratory of a reputable dental college, or an unlicensed person from performing merely mechanical work upon inert matter in a dental laboratory or a licensed physician from practicing oral surgery or treating diseases of the mouth. [*Amendment of 1909.*]

**FEEs**

The tuition fee for the session of 1917-18 will be \$150, payable at the beginning of the year to the Dean. By special arrangement one-half of the tuition may be paid at the beginning of the second half-year.

The laboratory fees amount to \$20 the first and second years and \$10 the third year. The unexpended balance after deducting for breakage and depreciation is returned to the student.

The fee for dissecting material is \$8 for the first year and \$4 the second year. A rental fee for the use of bones and skull and a deposit on the laboratory guides amounting to \$2.50 will be charged in the first and second years. A rental and depreciation fee of \$5 will be charged to all students using the new equipment. This charge is offset by a saving of approximately \$50 on the foot engine and instrument case.

All checks, money orders or drafts should be made payable to the College of Dentistry, University of California.

**DEPARTMENTAL ANNOUNCEMENTS****DEPARTMENT OF OPERATIVE DENTISTRY**

— — —, Professor of Operative Dentistry.

M. THAYER RHODES, D.D.S., Assistant Professor of Clinical Operative Dentistry.

FRANCIS VANCE SIMONTON, D.D.S., Instructor in Operative Dentistry

JACOB FREDERICK STEFFAN, D.D.S., Clinical Instructor in Operative Dentistry.

HUBERT HEITMAN, D.D.S., Clinical Instructor in Operative Dentistry.

CHARLES BERNARD MUSANTE, D.D.S., Clinical Instructor in Operative Dentistry.

HENRY OTTO EGGERT, D.D.S., Clinical Instructor in Operative Dentistry.

ARNOLD LEWIS MORSE, D.D.S., Clinical Instructor in Operative Dentistry.

The course of instruction in this department will consist of lectures, recitations, operative, technical and clinical work. The course has been thoroughly systematized and graded to meet the needs of the various classes of students, beginning with the fundamental principles in the first year and systematically advancing to the practical details of the most elaborate and complicated operations upon the teeth in the third year.

The course in Dental Anatomy and Operative Technique is designed to ground the student thoroughly in a knowledge of the gross anatomy of the teeth and the principles of operative dentistry, and to prepare him to prosecute intelligently the practical work in the infirmary. It will extend over a period of three half-years, including anatomical and mechanical drawing, modeling and carving during the first half-year; dental anatomy with its correlated technique during the second half-year; and operative technique during the first half-year of the sophomore year. Special attention is given to the teeth, their typical forms, pulp chambers and root canals, by examination, dissections, with drawings and carvings, augmented by stereopticon lectures and recitations. The course in operative technique includes a study in instrument making, including use and care of instruments; the manner of their manipulation and their adaptation to the various classes of operations by systematic practice on teeth out of the mouth, following the Black System of operative procedure. Instruction is also given in the manipulation and physical characteristics of filling materials and the application of the rubber dam; the methods employed in gaining space; the use of the matrix and clamp; and the preparation of the cavity and insertion of specimen fillings in tooth forms.



In the first half of the second year special attention will be given to the filling of the teeth with the various materials employed for that purpose, and laboratory tests of such fillings made out of the mouth. By such tests only can the student learn how to overcome his faults in manipulating the filling materials. The clinical instruction in the infirmary will begin in the second half-year, and will include a thorough course of instruction in oral prophylaxis. The clinical course will be supplemented by didactic instruction in this subject. Surgical cleanliness as applied to dental operations will receive especial attention from the lecture platform and in the infirmary.

A full course of instruction, both didactic and clinical, in the care of the deciduous teeth is given during the first half of the junior year, followed by general instruction in manipulation and insertion of plastic filling materials.

Prominent features of the clinical instruction to the senior class will be gold inlay work and the introduction of contour gold fillings.

A deposit fee of \$10 is required to cover breakage in infirmary and laboratories.

#### DEPARTMENT OF PROSTHETIC DENTISTRY

WILLIAM FULLER SHARP, D.D.S., D.M.D., Professor of Clinical Prosthodontia.

EDWIN HENRY MAUK, D.D.S., Professor of Prosthetic Dentistry.

FRANK CABUL BETTENCOURT, D.D.S., Instructor in Prosthetic Technique.

OLIVER AMBROSE HABERDIER, D.D.S., Assistant in Prosthetic Dentistry.

The instruction in this highly important department embraces everything necessary to enable the dentist successfully to apply substitutes for lost organs or parts of the oral cavity.

Special reference is made to the principles involved in the restoration of the natural functions of the teeth, namely, mastication, enunciation and facial expression, keeping in view always the health and future usefulness of the living parts.

The instruction is both didactic and practical, is divided into consecutive graduated courses for the four years, and includes the following subjects:

The history of prosthetic dentistry; the fixtures, materials and appliances of the laboratory; the manufacture of artificial teeth, their selection and arrangement for special cases, and characteristics; the principles involved, together with the methods in constructing dentures on vulcanite, cast and swaged metallic bases; the treatment of the mouth preparatory to the insertion of artificial dentures; the construction of the more advanced styles of dentures, including a thorough study of continuous gum cases,

crown, bridge, and porcelain work, and the hygienic and physiological relations of the denture to the parts with which it is in contact.

The didactic instruction consists of lectures, illustrated by lantern slides, "chalk talks," lessons in textbooks, quizzes, and written examinations.

In addition to the didactic teaching, and arranged to progress simultaneously with the lectures, is a thorough laboratory technic course, which is of the greatest value in giving the students a familiarity with and knowledge of the working properties of all the materials employed, embracing the use of wax and plaster, the construction, use and care of instruments and appliances, and experience in the use of vulcanite, making dies and counters, swaging and soldering processes, and in constructing dentures, including crowns and bridges.

A feature of this course is a constantly increasing collection of specimens and models illustrative of the detail steps of the various technic methods employed. This is also referred to frequently in the practical work of the department.

The teaching in practical work is extensive, students being required satisfactorily to complete various forms of restorations for infirm patients, progressing from simple repairs in the first year to the most modern forms of crowns, dentures and bridge structures in the second, third, and fourth years.

The fourth-year course is devoted to clinical work of an actually practical nature under the direction of the Professor of Clinical Prosthodontia, and is conducted in the infirmary with patients, or in the laboratory. The practical requirements are numerous, varied, and include all the usual methods of procedures of a prosthetic dental practice. In addition to the same, each student will undertake and carry to successful completion, before graduation, an "elective or specimen practical case" of merit and embracing several unusual features which will serve as an examination as to his diagnostic ability and technical skill.

#### DEPARTMENT OF DENTAL PORCELAIN

GEORGE LUSK BEAN, D.D.S., Professor of Dental Porcelain.

OTTO P. ROLLER, D.D.S., Special Instructor in Dental Porcelain.

SAXON BIRD SCOTT, D.D.S., Assistant in Dental Porcelain.

WILLIAM CARL WRIGHT, D.D.S., Assistant in Dental Porcelain.

The course in dental porcelain is taken up during the fourth year and is essentially practical in its nature.

Students will be taught the characteristics, uses and limitations of the different standard porcelain bodies, and will be required to become

thoroughly familiar with the manipulation of the same in the technic laboratory before undertaking operations of a practical nature in the infirmary.

Special consideration will be given to the preparation of roots for porcelain shell crowns, and the construction of the same by hand carving. Porcelain bridge work and the making of gum sections for restorative purposes will also be taught.

The preparation of cavities for porcelain inlay work will be taught didactically, with illustrations and demonstrations, the student finally being required to fill cavities of each general type in extracted teeth before doing like operations in the mouth. During the second half-year one full morning each week will be devoted to practical infirmary cases, under the supervision of special demonstrators.

Though the college is well supplied with electric and gas furnaces, students will use their own furnaces constructed during the second year, in order that they may become familiar with their furnace temperatures, care, and manipulation.

Each student will be required to furnish gold and platinum foil for his technic work and platinum for crowns, to be deposited with the department, the porcelain bodies all being furnished by the college.

Before graduating each student must have performed enough practical operations in the mouth to demonstrate a working knowledge of the subject, satisfactory to the head of the department.

#### DEPARTMENT OF SURGERY

JAMES GRAHAM SHARP, M.D., D.D.S., Professor of the Principles and Practice of Surgery.

HERBERT T. MOORE, B.S., D.D.S., Lecturer on the Principles of Surgery.

WILLIAM HENRY HANFORD, D.D.S., Clinical Instructor in Extracting.

HOMER LASH SAMS, D.D.S., Clinical Instructor in Extracting.

CLARK RANSOM GILES, D.D.S., Instructor in Oral Anesthesia.

This course will be both clinical and didactic, comprising all surgical operations about the mouth and contiguous parts, supplemented by instruction and demonstration in extracting, with practical application of general anesthetics. Special attention is paid to the use of local anesthesia in its various phases, as conductive, infiltrative, intra-osseous, and intra-alveolar anesthesia in both extracting and minor surgery.

This department also includes a course in surgical dissections upon the cadaver.

## DEPARTMENT OF ORTHODONTICS

ALLEN H. SUGGETT, B.S., D.D.S., Professor of Orthodontics.

CHARLES S. MCCOWEN, D.D.S., Clinical Instructor in Orthodontics.

EARL LEO MCGLASHAN, D.D.S., Instructor in Orthodontic Technique.

Under this department embracing the third and fourth years are taught the modern methods of correcting irregularities of the teeth and dentofacial deformities.

*Third-year Course.*—Lectures on occlusion; the etiology, classification, diagnosis and treatment of malocclusion; the principles, construction and application of essential regulating appliances, and the various forms of anchorage and post-treatment maintenance, with demonstrations.

Under the instructor the student will be taught impression taking, model making, soldering and the construction of appliances.

*Fourth-year Course.*—Under the supervision of the instructor, the student will conduct practical cases in the infirmary. Each student, having been fully prepared during the junior year by the lectures and technical work, will be required to correct at least one case of malocclusion, besides having the benefit of observing the conduct of cases by the other students. Under proper supervision practical cases will be conducted and their treatment fully demonstrated as they progress.

## DEPARTMENT OF DENTAL PATHOLOGY AND THERAPEUTICS

JOSEPH DUPUY HODGEN, D.D.S., Professor of Dental Pathology and Histology.

STANLEY LOFTUS DOD, D.D.S., Instructor in Dental Pathology and Therapeutics.

HORACE IRVING SPARE, D.D.S., Clinical Instructor in Dental Pathology and Therapeutics.

This department is of special importance, as it embraces a study of the conditions met with in general dental practice and the most recent and successful methods of treatment.

The course will be given in the form of lectures and quizzes, supplemented by practical demonstrations of the various therapeutical measures and whenever possible by exhibitions of lantern slides and apparatus. Experimentation and research work will be encouraged.

The pathological conditions considered will be abrasions, erosions, stains and caries of the enamel and dentin; constructive and destructive diseases of the dental pulp; diseases of the pericementum, both apical and gingival. Under the head of therapeutics the following subjects will be

taught, both by lectures and practical demonstrations in the infirmary: bleaching teeth, the various methods of pulp devitalization and removal, canal treatment and filling, treatment of alveolar abscess.

In those diseases of the pericementum classed as pyorrhoeal, demonstration will be given of deep scaling of the roots with application of the accompanying remedial agents and an exhibition of the different forms of splints and loosened teeth.

Instruction will be given in oral prophylaxis and the modern prophylactic treatment of scaling and polishing the teeth, together with the use of compressed air sprays.

The different practical methods of obtunding sensitive dentin and relieving the pain of other operative procedures will form an important part of the course.

## HISTORY AND PRACTICE OF DENTAL SCIENCE

GUY S. MILLBERRY, D.D.S., Dean

A lecture course in the above subject will be given to the fourth-year students following the general plan of instruction given during the past two years. The time required is one hour per week with examinations at the close of each half-year. Embraced within this general heading there will be included a general review of the history of dental art and science from earliest times down to the present day, with special reference to its growth and development in the United States. The works and lives of men who have made dentistry a science will be discussed. The economic phase of dental practice will be discussed under such headings as dental records, fees, collections, money, banking, credit, investments, insurance, ethics, professional associations, preparing and presenting papers and clinics, lectures to the laity on mouth hygiene and oral prophylaxis, and concluding at the close of the spring session with equipping an office and conducting a dental practice.

Theses may be required from time to time on any selected subject. Full credit is given for the course.

## DEPARTMENT OF CHEMISTRY AND METALLURGY

GUY S. MILLBERRY, D.D.S., Professor of Dental Chemistry and Metallurgy.

JOHN E. GURLEY, D.D.S., Instructor in Dental Chemistry.

— — —, Laboratory Assistant in Dental Metallurgy.

The course in Chemistry and Metallurgy is both theoretical and practical. The lectures and recitations are further explained and elaborated by half-day laboratory periods.

In the laboratories every apparatus and opportunity is afforded the student not only for the work of the course but also for original research. Each student is provided with a bench, all necessary reagents, and a locker with some fifty pieces of apparatus. Special attention is given to the study of nitrous oxide, porcelain, basic zinc cements, to working steel, hardening and tempering instruments, refining and alloying gold, the production of gold foil and other forms of gold for practical work, and a thorough, practical and experimental course in the properties of dental-amalgam alloys.

A deposit of \$5 is required of each student in the laboratories. The following is a general synopsis of the course:

*First Year.*—Following Simon's Manual of Chemistry and our own laboratory manual, the first-year course includes the subject of general inorganic chemistry applied to dentistry. There are two lectures and one laboratory period each of a half-day each week, where the student is required to perform about three hundred practical illustrative experiments. A number of themes are required from the class, from time to time, upon chemical subjects particularly important to dentistry.

*Second Year.*—During the second-half of the second year organic chemistry is taught didactically, two hours each week being devoted to this subject.

The work in metallurgy comprises two lectures and two laboratory periods of a half-day each week during the first half-year. The laboratory work includes practical and experimental work on all the metals of importance to dentistry, the preparations of basic zinc cements, alloys of all the various metals, especially of gold and silver, practical preparation of gold foil from scrap gold, and the preparation and practical study of dental-amalgam alloys. During the year themes are required upon subjects of particular importance. A special feature of this course embraces the theory and construction of the electric furnace. Each student will be required to construct a furnace for his personal use, at a cost approximating \$25.

#### DEPARTMENT OF PHYSIOLOGY

CARL LESLIE HOAG, M.D., Instructor in Physiology.

GEORGE WILLIAM SIMONTON, D.D.S., Assistant in Physiology.

The courses in Physiology are given during the first and second years. Instruction consists of lectures, recitations, demonstrations and individual laboratory work. Written tests are held each week. The laboratory is well supplied with kymographs, inductoriums and other apparatus by means of which the students are enabled to repeat the more fundamental

physiological experiments. In connection with all experiments and demonstrations carefully written notes are required. In the first year the main facts of the physiology of the blood and circulation, respiration, absorption, secretion and excretion, metabolism, digestion, and reproduction are studied. In the second year is given the physiology of the nervous system and the special senses.

#### DEPARTMENT OF THERAPEUTICS AND MATERIA MEDICA

HENRY B. CAREY, B.S., M.D., Instructor in Therapeutics and Materia Medica.

This course is made as thoroughly interesting and practical as possible, and is graded as follows:

*General Principles of Therapeutics.*—Under this head the general application of medicines will be noticed—their actions, constitutional and topical.

*Special Therapeutics.*—In connection with Dental Materia Medica, as incidentally related thereto.

*Materia Medica* will be taught by lectures and recitations.

The course will embrace prescription writing, pharmacology and the use of drugs in general.

These lectures will be illustrated by crude drugs, pharmaceutical preparations, and special attention will be given to those drugs and preparations used in dental practice.

Special attention will be given to the subject of anesthesia. The student will be given practical instruction in this important subject. As an aid in this work several lectures and practical work will be given in physical diagnosis to enable the student to detect the more important signs which contra-indicate anesthesia. Heart lesions will receive special attention and the student will be taught the use of the stethoscope.

#### DEPARTMENT OF ANATOMY AND HISTOLOGY

HENRY B. CAREY, B.S., M.D., Instructor in Anatomy and Histology.

The courses will consist largely of laboratory work and will be attended by the members of the first-year and second-year classes.

The student is required to provide himself with a gown and apparatus of approved type.

The dissecting rooms are spacious, well ventilated, and contain all the modern conveniences. They will be open to the students during the hours allotted to this subject and at such other times with permission of the instructor in charge as may appear necessary or desirable. An abundance of material is always on hand. The material is kept in first-class condition and at no time is the air in the room filled with unpleasant odors.

The histological laboratory is located in the college building proper. It is very well lighted and has all of the necessary apparatus for the giving of a thorough course in Histology.

The first-year course is divided as follows:

**A. General Gross Anatomy.**

(a) Osteology. This subject will consist of the study of all the bones save those of the skull. The work will consist of modeling in clay, drawing and recitations. At the completion of the course examinations both oral and written will be given.

(b) Dissection of two parts, upper and lower. The student will be furnished a guide for this work. When the student has satisfactorily dissected and demonstrated a part of the work, it is checked off on the guide by the demonstrator. At the completion of the dissection of each part, the student is required to pass a satisfactory examination both oral and written, when credit for the same will be recorded. In addition to the above, the instructor in charge may require such other recitations, quizzes or exercises as may be deemed advisable. Students in this department are required to pay a special fee of \$2.50; of this sum \$1.50 will be retained to cover the use and loss of material in Osteology; \$1 is required as a deposit for the dissecting guides, which, if properly marked and returned at the end of the course, will allow of a refund of the same.

(c) The dissection of the thorax and abdomen. The student will be furnished a special guide for this dissection. The work is covered in a general way, much of the minute anatomy and detail being omitted. It is not deemed necessary to cover this work as minutely as for medical students. The student, however, is given a good general knowledge of all the organs and viscera, and is encouraged, if time permits, to examine and dissect the heart and stomach completely.

**B. Histology.** This course is given during the second half-year, and as far as possible is concentrated. The students receive for study sections of the tissues and organs of the body. The sections are as a rule prepared by competent assistants, stained and cleared, ready for mounting. The student is instructed as to the different methods by which the preparations are made, but beyond the technique of mounting and the methods of making and staining teased preparations, smears and fresh mounts, his time is devoted as much as possible to the actual study of the structures under consideration.

Careful notes have to be taken and drawings made of each of the sections studied. As each subject is completed, the drawings made in the study of the structures involved are arranged in sequence, labeled and explanatory references attached, and then handed to the instructor



for examination and correction. For the structures of the mouth cavity the student is especially required to prepare a concisely written paper illustrated by his drawings and incorporating his observations in the laboratory, his lecture notes and reading. The laboratory periods are supplemented by an informal talk or lecture bearing on the histology of the tissues which are being studied.

A deposit of \$10 is required to cover breakage and repairs of microscopes and apparatus.

The second-year course in Special Anatomy is divided as follows:

(a) Osteology of the Skull. Bones will be studied with care. The majority of the bones will be modeled in clay, paper or other material. The rest of the work will consist of recitations, demonstrations and quizzes.

(b) Gross Anatomy of the Nervous System. This consists of the dissection of the spinal cord and brain; with drawings, demonstrations and recitations.

(c) Dissection of the Head and Neck. Students will be furnished a guide for this important dissection and the same pedagogical scheme will be followed for this dissection as in the first-year course. The applied surgical anatomy will be incidentally discussed and emphasized during the course of dissection.

At the close of the above course examinations both oral and written will be given. The student is encouraged to do daily work of a high class quality and he is given to understand that such work is an important factor in the final record.

## DEPARTMENT OF PATHOLOGY AND BACTERIOLOGY

JEAN V. COOKE, A.B., M.D., Assistant Professor of Pathology.

Bacteriology occupies a most important place in dentistry on account of its relation to hygiene and preventive medicine. Many pathogenic bacteria also may be found in the mouth, and the dentist may at any time be confronted with a case in which a knowledge of bacteriology is essential for its proper treatment. The instruction in this department consists in part of lectures and quizzes, with certain assigned reading. By far the larger part of the course, however, is devoted to practical work with bacteria in the laboratory. Students prepare culture media, note the microscopic appearances and growth characteristics of bacteria which they isolate from air and water, and study the most important bacterial disease-producing organisms. Some time is devoted also to a study

of the bacterial flora of the mouth by isolating some of the species and examining preparations from around the teeth by means of dark-ground illumination. The object of the course is to familiarize the student with the nature of bacteria, with general bacteriological methods and technique, and to show him how these principles may be applied to dentistry.

The course in pathology takes up only some of the general processes. Particular attention is paid to the phenomena of inflammation and repair, of tuberculosis, syphilis, and tumors. The pathologic processes which affect the oral cavity are considered in several lectures toward the end of the course. In addition to the didactic lectures, each student is loaned a collection of stained and mounted tissues for microscopic examination. The study of these specimens and the making of notes and drawings of the pathological changes present make up the bulk of the laboratory work.

Owing to the nature of the laboratory work in these subjects, better results are obtained by the concentration of the time devoted to them.

Properly qualified advanced students who have time to devote to the subject are encouraged to carry on original work, for which there is ample material and equipment.

A deposit of \$10 is required to cover breakage and repairs to microscopes and apparatus.

## DEPARTMENT OF RADIOGRAPHY

GEORGE RUCIAN HUBBELL, M.D., Instructor in Radiography.

The course on Radiography will consist of lectures and practical work in the X-ray laboratory. The lecture course will be divided as follows:

Electricity and its relation to the production of the X-ray.

X-ray apparatus and its manipulation.

Selection and installation of X-ray apparatus.

Tubes: their types, construction, and principles.

Selection and care of tubes.

Comparative studies of the Cathode and Röntgen ray.

The principles of technic.

The preparation and protection of plates.

Developers and development.

Negatives and their interpretation.

The clinical application of the X-ray.

Legal status of the X-ray.

## DEPARTMENT OF COMPARATIVE ODONTOLOGY

MALCOLM GODDARD, B.S., D.D.S., Instructor in Comparative Anatomy.

This course comprises a study of the origin, kinds, and attachment of teeth to be found in the various mammalian and reptilian types; the theories as to the origin of the mammalian teeth, tracing the evolution from the ancestral type; comparisons of the phylogenetic and ontogenetic series as to molar evolution; and the peculiarities, with their etiology, of the common types of mammals. Close study is made of a number of specimens in the museum.

## DENTAL JURISPRUDENCE

A special course of lectures on Dental Jurisprudence will be given to the third-year class by Louis Bartlett, Ph.B., LL.B., at especially appointed times during the session.

## COLLEGE LIBRARY

ROBERT E. KEYS, D.D.S., Librarian.

The library, situated on the third floor of the college building, contains two thousand volumes. In addition to the latest textbooks on all dental and allied subjects, there are several complete files of many of the dental journals, some of them back to 1853, thus giving a very comprehensive review and history of the progress of dentistry.

Through the courtesy and generosity of the publishers, the library receives monthly copies of all the principal dental journals of this country, England, Canada, Australia, Japan, France, Germany, Spain, Mexico, and Chile.

The library is open from 9 a.m. to 12 m. on Monday and Friday and from 10:30 to 11:30 a.m. on Tuesday, Wednesday, and Thursday.

## MUSEUM

The museum contains a collection of anatomical, pathological, metallurgical and mineralogical specimens, crude drugs and chemicals, artificial dentures of all kinds, both early and modern. It also contains materials used in the manufacture of teeth as well as large casts and mammoth wooden teeth for illustrating procedures in operative dentistry, besides instruments and apparatus used in earlier periods, and specimens prepared by students, indicating the progress and methods of teaching dental technics.

There is also a fine collection of skulls of animals for the study of comparative odontology.

A valuable collection of casts of irregularities has accumulated from the college clinic and from private practice. These exemplify before and after treatment, and also the appliances by which the changes were accomplished.

All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associated parts, or anything that will be useful and instructive. These contributions will be placed in the library and museum and marked with the names of the donors.

### ALUMNI ASSOCIATION

The object of the association is the promotion of the highest excellence in the science and art of dentistry and dental education, the welfare of its members and the interests of its alma mater.

The membership is composed of members of the faculty and all graduates of the College of Dentistry, University of California, who are legal and ethical practitioners.

A series of evening clinics will be held throughout the year, with a yearly day clinic, during the mid-winter season.

The officers for the year 1916-17 were:

Edward J. Howard, President.

Z. Coney, Vice-President.

Stanley L. Dod, Secretary.

H. B. Kirtland, Treasurer.

Alumni Councilor, M. Thayer Rhodes.

Trustees: Guy S. Millberry, C. E. Post, J. E. Gurley, M. Goddard, and E. H. Brassel.

### THE STUDENT BODY

During the year 1916-17 student activities conformed to the traditions and policies of former years, during which time student self-government has been developed to a considerable degree. Matters arising within each class are handled by that class and matters of general importance are given consideration by the student body as a whole.

The hour 11 to 12 on the last Thursday of each month is reserved for student body meetings, all other exercises being suspended, at which meeting, beside the regular business transactions, lectures of general and special interest to the students are given by speakers selected by a committee from the student body. During the past year illustrated lectures

were given by Dr. R. T. Thurnwald upon his travels and explorations in New Guinea, Winfield Scott Hall, Julian Arnold of the American Embassy in China, and Dr. W. S. Hall of the Northwestern Medical School upon Sex Hygiene. Among those of special interest were the lectures of Dr. John R. Buckley of Chicago upon Dental Therapeutics.

Great interest has been taken in athletics this year and the college baseball team closed a very successful season, games being played with University of California freshmen and various teams from other colleges.

The custom of holding a student body dance was revived this year and a successful dance was given on April 14 at the Fairmont Hotel.

For the promotion of higher ideals and standards among the students an honor society was formed in 1915. Election to this society is based upon scholarship, integrity of character and good fellowship.

The Students Affairs Committee, which acts as an executive committee for the student body and as an intermediary between the students and the faculty, has been responsible for a high degree of student honor. The following action in force for some years past was voted on and approved:

"That the Superintendent be requested to make an inspection of each student's equipment in accordance with the requirements as published in the announcement in order to determine that each student has a complete outfit before he be allowed to take up any practical work."

Officers of the student body:

President, Dudley Gwinn.

Vice-President, John Wakefield.

Secretary, Charles S. Lipp.

Treasurer, William H. Haskins.

## INSTRUMENTS

Before beginning his work, each student will be required to procure the instruments necessary for his use.

The cost of the instruments for the first-year technical work amounts to about forty dollars, and when the student is ready to take up the work in the second year it is necessary for him to purchase a complete outfit, investing about a hundred and eighty dollars more. This outfit includes a dental engine, and is of so practical a nature that the applicant upon graduating can begin practice without an additional expense for instruments.

A separate list of instruments required may be had upon application to the Dean.

## STUDENTS, 1916-17

NOTE.—All addresses in the following lists are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda; P, Piedmont. The superior figure, <sup>1</sup>, marks the names of students who were registered first half-year only; <sup>2</sup>, second half-year only.

Armistead, John Oliver	Newman	Colvin, Ernest Fleming	New Pine Creek, Ore.
3rd yr-1845 Fifth av	Snst 2408	3rd yr-1467 Willard st	Park 5111
Austin, Lloyd Orocket	Fresno	Craig, Charles Westley	Capay
3rd yr-1845 Fifth av	Snst 2408	2nd yr-1248 Fifth av	Snst 3261
Bailey, Oscar	San Diego	Craig, James Steward	Napa
3rd yr-1248 First av	Snst 1141	2nd yr-1845 Fifth av	Snst 2408
Banker, William Jennings	Ukiah	Crees, Robert Rudolph	San Francisco
<sup>1</sup> 1st yr-1248 Fifth av	Snst 3261	1st yr-317 Twenty-ninth st	Msn 4067
Barber, Leland Austin	San Francisco	Cuenin, Leon George	San Francisco
1st yr-271 Ninth av	Pac 1399	2nd yr-1626 Vallejo st	Frkn 8056
Barnum, William Gordon	Oakland	Cunningham, John Lindsay	San Francisco
3rd yr-408 Hudson st, O		1st yr-513 Liberty st	Msn 5931
Baronidis, Cedric Cyril	San Francisco	Dorman, Carl Nichols	Sacramento
2nd yr-1512 Masonic av	Mkrt 8116	3rd yr-1845 Fifth av	Snst 2408
Barton, Roy Franklin	Pittsfield, Ill.	Doty, Gerald Edwin	Courtland
1st yr-1867 Third av		3rd yr-176 Belvedere st	Park 1677
Bell, Robert	Napa	Ehorn, Paul	Orland
2nd yr-Estrella Ranch,	Napa 12F5,	2nd yr-94 Carl st	
Berryman, Elmer Holmes	Grass Valley	Epley, Francis Wayland	Bellingham, Wn.
2nd yr-1248 Fifth av	Snst 3261	2nd yr-975b Clayton st	
Bettencourt, George Leo	Mendocino	Epstein, Abe	San Francisco
1st yr-1288 Second av	Snst 2401	2nd yr-3231 Mission st	Msn 8022
Block, Thomas Ryan	Gridley	Fischer, Ernest Clifton	San Francisco
1st yr-322 Parnassus av		1st yr-177 Eighth av	Pac 1288
Boyd, Charles Edward	Brawley	Fischer, Marguerite	San Francisco
1st yr-2520 Howard st		3rd yr-177 Eighth av	Pac 1288
Boyd, Eddy Tallman	Napa	Fowler, Clinton	Bakersfield
3rd yr-1845 Fifth av	Snst 2408	1st yr-1345 Fifth av	Snst 2408
Bradley, Charles Dustan	Spreckels	Frank, John Herbert	San Francisco
3rd yr-1345 Fifth av	Snst 2408	2nd yr-274 Twenty-sixth av	Pac 6071
Breece, Lester Elmer	San Francisco	Frates, Robert Carmel	San Francisco
1st yr-1036 Polk st	Frkn 4410	1st yr-1209 Second av	Snst 1005
Brown, Clements William	Clements	Frisbie, Harry Earle	Oakland
1st yr-1467 Willard st	Park 5111	2nd yr-3409 California st, B	Pied 8216W
Burgess, Howard Harmon	Stockton	Gealey, Renwick William	Oakland
2nd yr-415 Buchanan st		3rd yr-1123 Fifty-third st, O	
Burnett, Glenn Hazen	Stockton	George, Reuben Amos	Crockett
1st yr-1467 Willard st	Park 5111	2nd yr-1252 First av	Snst 1658
Busick, Claude Leland	Union, Ore.	Glazer, Maurice	Escanaba, Mich.
<sup>1</sup> 1st yr-1447 Sixth av		3rd yr-554 Thirty-second st, O	
Butler, Chester Gregson	San Francisco	Gibson, Earl John	San Diego
2nd yr-1821 Lake st	Pac 4855	1st yr-522 Judah st	Snst 1340
Cadwallader, Ward Glenn	Clovis	Glaason, Percy	Grass Valley
2nd yr-1467 Willard st	Park 5111	1st yr-280 Carl st	Park 3919
Campbell, John Lockhart	Pacific Grove	Godbolt, Fred Bolton	Red Bluff
3rd yr-1248 First av	Snst 1141	3rd yr-1248 Fifth av	Snst 3261
Carlen, Amy E.	San Francisco	Goff, George Almon	San Anselmo
1st yr-1156 Vallejo st	Frkn 5314	2nd yr-San Anselmo	
Carmean, Clyde Charles	Morgan Hill	Gold, Isaac Eugene	San Francisco
2nd yr-1248 Fifth av	Snst 3261	<sup>2</sup> 2nd yr-1555 Clement st	Pac 7468
Cauch, Wilbur Rogers	San Jose	Golden, Winfred Leo	Oakland
1st yr-917 Cole st		1st yr-1437 Seventy-eighth av, O	
Chessall, Ralph Perry	Ukiah	Goodman, Sheldon Herbert	San Francisco
3rd yr-1248 Fifth av	Snst 3261	2nd yr-1826 Clement st	
Cochrane, Claude Tony	San Francisco		
1st yr-200 Eureka st	Msn 525		

Green, Roy Albert	Sacramento	Kamble, James Hugh	Alturas
1st yr-1957 Turk st	West 1170	1st yr-1885 Clay st	Pspst 8698
Griffiths, James Raymond	East Auburn	Ker, Ernest Rosekrans	San Francisco
3rd yr-1467 Willard st	Park 5111	2nd yr-117 Lyon st	Park 1700
Grover, George B.	St. Anthony, Idaho	King, Carl Eugene	Hollister
1st yr-1248 Fifth av	Snst 8261	2nd yr-714 Second av	Pac 278
Groves, Murray Howell	Chico	Kogura, Tokutaro	Japan
2nd yr-1441 Ninth av		2nd yr-1662 Post st	West 2484
Gwinn, Charles Dudley	San Francisco	LaBaree, Eugene Allison	Berkeley
3rd yr-167 Twenty-second av	Pac 2956	1st yr-2615 Ashby av, B	Bkly 1785
Hahn, George Walter	San Francisco	LaPlace, Marcel George	San Francisco
1st yr-2715 Peralta av, O	Ervl 1893W	1st yr-2531 Washington st	West 6731
Haley, John Mervyn	Oakland	Lasky, Mervyn Charles	San Francisco
1st yr-4205 Terrace st, O	Pied 4889W	1st yr-214 Twenty-eighth av	Pac 264
Hare, Frederick Hugill	Redding	Lifschitz, Mathew	San Francisco
2nd yr-94 Carl st		2nd yr-1257 Guerrero st	Valen 4144
Haskins, William Howard	San Jose	Lind, Harry Calvin	San Francisco
2nd yr-172 Parnassus av		3rd yr-2231 Dana st, B	Bkly 5249
Hawkins, Walter Joyce	Grass Valley	Lingenfelter, Jessie Alvin	San Francisco
1st yr-1248 Fifth av	Snst 8261	1st yr-1248 Fifth av	Snst 8261
Hayashi, Tokutaro	Sacramento	Lipp, Charles Schiller	Point Richmond
2nd yr-1526 Geary st	West 1461	3rd yr-1467 Willard st	Park 6111
Heacock, Lyman Dunlap	San Francisco	Lonn, Nestor Maximillian	
A.B. 1916			Gothenberg, Sweden
*1st yr-1420 Ninth av	Snst 1237	3rd yr-1248 Fifth av	Snst 8261
Heimlich, Albert Franklin	Santa Barbara	Lowell, Walter Hazelwood	Oakland
1st yr-2222 Dwight way, B		3rd yr-McAdam st, O	Pied 5653
Helmer, George A.		Lynch, Philip Thomas	San Francisco
1st yr-125 Judah st		1st yr-1004 Sanchez st	Man 462
Hills, Avery Scott	Sacramento	Maimone, Paul Emmett	Oakland
3rd yr-1345 Fifth av	Snst 2408	1st yr-1309 Eighty-fourth av, O	Elm 572
Hinck, Louis Robert	Oakland		Willows
2nd yr-2115 Twenty-fourth av, O		Marshall, Leon Westley	
Hughes, Thomas Edgar	Alameda	2nd yr-2883A Golden Gate av	
3rd yr-1526 1/2 Morton st, A		Marsili, Constantine	San Francisco
Hurd, Rollin Edgar	San Francisco	1st yr-2937 Folsom st	Valen 2
1st yr-1283 Second av	Snst 2401	Martin, Webster	New York, N. Y.
Jackson, Dequilla Quincy	Vallejo	1st yr-1467 Willard st	Park 5111
1st yr-1296 Twelfth av		Mashihara, Taija	Japan
Jacobson, Arthur Leonard	San Francisco	2nd yr-2311 Buena Vista av, A	
1st yr-1345 Fifth av	Snst 2408	Mathewson, Joseph Edward	Yreka
James, Vernon Edward	Oroville	1st yr-1278 Sixth av	
2nd yr-1248 Fifth av	Snst 3261	Mathis, Earle Howard	San Francisco
Jansen, Jerome John	San Francisco	2nd yr-189 Parnassus av	
3rd yr-56 Alma st		Matteson, J. Vance	San Francisco
January, John William	Vacaville	1st yr-1326 Sixth av	
1st yr-614 Page st	Park 1643	Morin, Adrian Lewis	San Francisco
Johnson, Charles Eugene	Hollister	3rd yr-616 Baker st	West 9587
3rd yr-1833 Fifth av	Snst 747	Nakahara, Saichi	Hawaii
Johnson, Chester William	Ferndale	1st yr-3494 Jackson st	Flmr 1308
2nd yr-1248 Fifth av	Snst 3261	Neff, Clarence Wilson	Alameda
Johnson, Ernest Leroy	San Francisco	1st yr-1450 Fernside blvd, A	Ala 3015
1st yr-1345 Fifth av	Snst 2408	Nygard, Alfred	San Francisco
Johnston, Howard Mine	Watsonville	1st yr-1283 Second av	Snst 2401
3rd yr-1248 Fifth av	Snst 3261	O'Connell, Aloysius John	Hollister
Jungermann, Otto Richard	Berkeley	1st yr-2348A Fulton st	
2nd yr-1467 Willard st	Park 5111	Olswang, Samuel Ripley	San Francisco
Kato, Shokichi	Japan	1st yr-176 Belvedere st	Park 1677
1st yr-1859 Pine st	Frkn 3888	Ortiz, Roulal	Mexico
Kazanjian, Ardashes Arthur	Fowler	2nd yr-33 Scott pl	
1st yr-306 Carl st		Parraga, Frank	Costa Rica, C. A.
		1st yr-300 Baker st	Flmr 3911

Peck, Max	Kief, Russia	Strickland, William Harold	San Francisco
1st yr-1529 Steiner st	West 7145	1st yr-2425 Fillmore st	Fmfr 3224
Pohlman, Theodore Hardiman	San Francisco	Stock, Clarence Alden	Virginia City, Nev.
2nd yr-221 Cole st	Pac 1686	3rd yr-1248 Fifth av	Snst 3261
Porter, Kenneth Carl	Hermosa Beach	Streeter, Millard Joseph	Fresno
1st yr-1867 Third av		2nd yr-1636 Eighteenth av, O	Mer 2558
Powell, Noble Allen	Stockton	Sweet, Charles	Berkeley
3rd yr-1467 Willard st	Park 5111	1st yr-2910 1/2 Benvenue av, B	Bkly 5757W
Pruett, Alvin William	Fresno	Sylva, Francis K.	Honolulu, T. H.
1st yr-1105 Stanyan st	Park 4637	3rd yr-176 Belvedere st	Park 1677
Rantz, Lester Bevard	Lakeport	Tanaka, Toshi	San Francisco
3rd yr-1248 Fifth av	Snst 3261	3rd yr-579 Cedar av	
Rapp, Carl Paul	Turlock	Terwilliger, Glendon Hood	Montague
2nd yr-94 Carl st		1st yr-1278 Sixth av	
Reardan, Leslie Huntington	Oroville	Terwilliger, Kenneth Francis	Montague
2nd yr-1721 Lyon st	Fmfr 8124	1st yr-1278 Sixth av	
Rebstock, Eugene E.	San Francisco	Tilden, Thomas Edwin	Sacramento
1st yr-1243 Second av	Snst 264	2nd yr-1345 Fifth av	Snst 2408
Rickley, John Lloyd	Oakland	Tollefson, Homer Clinton	Tacoma, Wn.
1st yr-1252 First av	Snst 1658	3rd yr-1248 Fifth av	Snst 3261
Ridenour, Harris	Stockton	Tompkins, Carl Phillip	Meridian, Idaho
2nd yr-1467 Willard st	Park 5111	1st yr-1867 Third av	
Roberts, Samuel Josiah	Lake Crystal, Minn.	Tweed, Charles Henry	Hayden, Ariz.
2nd yr-1248 Fifth av	Snst 3261	1st yr-1472 Twelfth av	
Robertson, John Franklin	Napa	Van Alstyne, Byron Edmond	San Francisco
2nd yr-125 Irving st	Snst 1196	1st yr-1067 Valencia st	Valen 8313
Rosen, Bernard	Alameda	Vorwerk, Leo Luke	Vallejo
1st yr-1415 Paru av, A	Ala 2838	2nd yr-1345 Fifth av	Snst 2408
Russell, John Edgar	Porterville	Wakefield, John	Ione
1st yr-1283 Second av	Snst 2401	3rd yr-1467 Willard st	Park 5111
Schuchard, Leo William	Medford, Ore.	Wallace, Dorrace Glenn	Los Gatos
3rd yr-176 Belvedere st	Park 1677	3rd yr-1010 Haight st	Park 5970
Scott, Edna	San Francisco	Walther, William Enos	Sacramento
1st yr-1664 Larkin st		1st yr-502 Stanyan st	Park 5009
Scott, Violet	San Francisco	Warford, Frederick Sylvester	Oakland
1st yr-1664 Larkin st		1st yr-650 Parnassus av	Snst 3173
Setzer, Ernest Martin	Lodi	West, Chalmers E.	Willows
3rd yr-1248 Fifth av	Snst 3261	2nd yr-856 Cole st	
Shannon, Herbert Loraine	Selma	West, Sylvan Edmond	Willows
1st yr-272 Carl st	Park 5650	2nd yr-1325 Masonic av	
Shepherd, Carlton Wise	Bakersfield	Westbay, Clayton	Stockton
2nd yr-1467 Willard st	Park 5111	1st yr-1467 Willard st	Park 5111
Shottenhamer, Cyril Aloysium	San Jose	Westwood, Willard Smeaton	Oroville
2nd yr-1252 First av	Snst 1658	1st yr-227 Rivoli st	
Sink, John Reed	Cloverdale	Wetmore, Harry Larren	San Francisco
1st yr-1251 Second av	Snst 1810	1st yr-917 Cole st	
Smith, Ernest Leroy	Oakland	Wildanger, Warner Fred	Elk Grove
2nd yr-2734 E Sixteenth st, O	Erwl 1008J	1st yr-1467 Willard st	Park 5111
Smith, Lester Lauren	Santa Rosa	Williams, Roy Oliver	Berkeley
1st yr-1248 Fifth av	Snst 3261	2nd yr-2010 Virginia st, B	Bkly 6450
Stabler, Arthur Christian	San Francisco	Wood, John Lu Rell	Redding
2nd yr-1138 Stanyan st	Mrkt 7480	2nd yr-1139 Stanyan st	Mrkt 8480
Steeves, Percy Ansley	San Jose	Yatabe, Tamotsu	San Francisco
3rd yr-1319A Fourth av		2nd yr-1843 Union st	West 4653
Stein, Sanford Jacques	San Francisco	Yoshino, Shotaro	San Francisco
1st yr-146 Seventeenth av	Pac 2778	1st yr-1543 Geary st	
Steiner, Cecil Caspar	Brawley	Young, Francis Willard	San Francisco
1st yr-2520 Howard st		1st yr-320 Capp st	Mrkt 4897
Stern, Emil	San Francisco	Zappettini, Charles James	San Francisco
2nd yr-185 De Soto st		1st yr-1069 Filbert st	Frkn 9299



**REGISTER—PART XII**

**ANNOUNCEMENT OF THE GRADUATE  
DIVISION**

**INCLUDING**

**REQUIREMENTS FOR HIGHER DEGREES AND FOR  
THE RECOMMENDATION FOR THE HIGH  
SCHOOL TEACHER'S CERTIFICATE**

**NOVEMBER, 1917**



**UNIVERSITY OF CALIFORNIA**

**ANNOUNCEMENT OF THE  
GRADUATE DIVISION**

**INCLUDING REQUIREMENTS FOR HIGHER DEGREES  
AND FOR THE RECOMMENDATION FOR THE  
HIGH SCHOOL TEACHER'S  
CERTIFICATE**

**UNIVERSITY OF CALIFORNIA PRESS  
BERKELEY**

**1917**

For the Board of Regents and other administrative officers, alphabetical list of academic senate, standing committees, general information regarding the Library, museums and laboratories, the Greek Theatre, athletics, gymnasia for men and women, swimming pool, Infirmary, special lectureships, and departments of instruction see the CIRCULAR OF INFORMATION.

For names of graduate students see the CATALOGUE OF OFFICERS AND STUDENTS, published in September and February of each year.

For a detailed description of courses of instruction see the ANNOUNCEMENT OF COURSES.

BENJAMIN IDE WHEELER, President of the University

DAVID P. BARROWS, Dean of the Faculties

A. O. LEUSCHNER, Dean of the Graduate School

#### GRADUATE COUNCIL\*

The work of the Graduate Division is supervised by a committee of the Academic Senate known as the Committee on Higher Degrees. For the year 1916-17 this committee was constituted as follows:

Professor A. O. LEUSCHNER, Chairman, 201B California Hall; 1816 Scenic av.

Professor D. P. BARROWS, 217 California Hall; 2738 Garber st.

Professor A. F. LANGE, 103 California Hall; 2601 LeConte av.

Professor G. M. STRATTON, 9 Philosophy Building; 55 Canyon rd.

Professor W. C. JONES, 212 Boalt Hall of Law; 2625 Benvenue av.

Professor H. M. STEPHENS, 30 Wheeler Hall; Faculty Club.

Professor J. G. HOWARD, Architecture Building; 1401 LeRoy av.

Professor W. A. MERRILL, 436 Wheeler Hall; 2609 College av.

Professor W. M. HART, 209 California Hall; 2255 Piedmont av.

Professor R. SCHEVILL, 427 Wheeler Hall; 1308 Tamalpais rd.

Professor F. SLATE, 115 South Hall; 2231 College av.

Professor J. C. MERRIAM, 204 Bacon Hall; 2410 Bowditch st.

Professor S. DAGGETT, 22 Wheeler Hall; 1427 Hawthorne ter.

Professor C. B. LIPMAN, 11 Budd Hall; Faculty Club.

Professor G. N. LEWIS, 110 Gilman Hall; 2440 Hillside av.

Professor T. F. HUNT, 112 Agriculture Hall; 1800 Bushnell pl.

Professor A. C. LAWSON, 223 Hearst Mining Building; 1515 La Loma av.

Professor H. M. EVANS, 16 Anatomy Building; 2617 LeConte av.

Professor T. B. ROBERTSON, 210 Physiological Laboratory; 2619 Regent st.

Professor C. L. CORY, 33 Mechanics Building; 2438 Warring st.

Mr. JAMES SUTTON, Recorder of the Faculties, Secretary, 204 California Hall; 2301 Prospect st.

The Dean of the Graduate School acts as adviser to graduate students in all matters relating to graduate study.

\* Since February, 1917. Before that time known as the Committee on Higher Degrees.

## ADVISERS

Requests for information regarding graduate study in special subjects may be addressed to the following officers:

<b>Agriculture:</b>	Dean Thos. F. Hunt	112 Agriculture Hall
Agricultural Chemistry	Professor J. S. Burd	9 Fertilizer Control Bldg.
Agricultural Education	Professor O. J. Kern	21 Budd Hall
Agronomy	Professor J. W. Gilmore	310 Hilgard Hall
Animal Husbandry	Professor G. H. True	107 Agriculture Hall
Citriculture	Professor J. E. Coit	389 Hilgard Hall
Dairy Industry	Professor C. L. Roadhouse	Davis
Entomology	Professor C. W. Woodworth	200 Agriculture Hall
Farm Mechanics	Professor J. B. Davidson	Davis
Forestry	Professor W. Mulford	305 Hilgard Hall
Genetics	Professor E. B. Babcock	314 Hilgard Hall
Graduate School of Tropical Agriculture and Citrus Experiment Station	Professor H. J. Webber	Riverside
Landscape Gardening and Floriculture	Professor J. W. Gregg	304 Agriculture Hall
Nutrition	Professor M. E. Jaffa	8 Budd Hall
Plant Pathology	Professor R. E. Smith	210 Agriculture Hall
Pomology	Professor W. L. Howard	Hilgard Hall
Poultry Husbandry	Professor J. E. Dougherty	Davis
Rural Institutions	Professor E. Mead	100 Agriculture Hall
Soils and Fertilizers	Professor C. B. Lipman	7 Budd Hall
Veterinary Science	Professor C. M. Haring	1 Budd Hall
Viticulture and Enology	Professor F. T. Bioletti	386 Hilgard Hall
*Anatomy	Professor H. M. Evans	16 Anatomy Building
Anthropology	Professor T. T. Waterman	2 Museum of Greek Sculpture and Anthropology
Archaeology, Classical	Professor O. M. Washburn	478 Wheeler Hall
Architecture	Director J. G. Howard	Architecture Building
<b>Astronomy:</b>		
Berkeley Astronomical Department	Professor A. O. Leuschner	201B California Hall
Lick Astronomical Department	Director W. W. Campbell	Mount Hamilton
Biochemistry	Professor T. B. Robertson	210 Physiological Laboratory
Botany	Professor W. A. Setchell	317 Hearst Memorial Mining Building
Celtic	Mr. W. W. Lyman, Jr.	405 Wheeler Hall
Chemistry	Dean G. N. Lewis	110 Gilman Hall
Civil Engineering	Dean C. Derleth, Jr.	204 Civil Engineering Building
Drawing and Art	Professor H. Kower	305 Drawing Building
Economics	Professor S. Daggett, Secy.	22 Wheeler Hall
Education	Director A. F. Lange	108 California Hall
English	Professor B. P. Kurtz	410 Wheeler Hall

\* With reference to medical course see "Medicine."

ADVISERS—(Continued)

Geography	Professor R. S. Holway	8 Bacon Hall
Geology and Mineralogy	Professor A. C. Lawson	221 Hearst Memorial Mining Building
German	Professor H. K. Schilling	401 Wheeler Hall
Greek	Professor J. T. Allen, Secy.	435 Wheeler Hall
History	Professor L. J. Paetow, Secy.	30 Wheeler Hall
Home Economics:		
Household Art	Professor Mary F. Patterson	300 Home Economics Building
Household Science	Professor Agnes F. Morgan	206 Home Economics Building
Hygiene	Professor Robert T. Legge	Infirmary
Irrigation	Professor B. A. Etcheverry	307 Agriculture Hall
Jurisprudence	Director W. C. Jones	212 Boalt Hall
Latin	Professor W. A. Merrill	436 Wheeler Hall
Mathematics	Professor M. W. Haskell,	421 Wheeler Hall
	or	
	Professor J. H. McDonald,	456 Wheeler Hall
	Secy.	
Mechanical and Electrical Engineering	Dean C. L. Cory	33 Mechanics Building
Medicine	Dean H. C. Moffitt	U. C. Medical School.
		Second and Parnassus avs., San Francisco
	Professor T. C. Burnett	115 Physiological Laboratory
Mineral	Dean A. C. Lawson	221 Hearst Memorial Mining Building
Music	Professor C. L. Seeger, Jr.	6 Music Building
Oriental Languages	Professor A. Forke	386 Wheeler Hall
Palaeontology	Professor C. Merriam	204 Bacon Hall
*Pathology and Bacteriology	Professor P. P. Gay	1 Hygiene and Pathology Building
Philosophy	Professor C. H. Rieber	Philosophy Building
Physical Education for Men	Professor F. T. Kleeberger	Harmon Gymnasium
Physical Education for Women	Professor M. Cleveland	Hearst Hall
Physic	Professor Frederick Slate	115 South Hall
Physiology	Professor S. S. Maxwell	202 Physiological Laboratory
Political Science	Professor David P. Barrows	217 California Hall
Psychology	Professor George M. Stratton	Philosophy Building
Public Health	Professor R. T. Legge	Infirmary
Romanic Languages:		
Spanish and Italian	Professor R. Schevill	427 Wheeler Hall
French	Professor G. Chinard	463 Wheeler Hall
Sanskrit	Professor A. W. Ryder	420 Library
Semitic Languages	Professor W. Popper	421 Library
Slavic Languages	Professor G. R. Noyes	419 Library
Zoology	Professor J. F. Daniel	214 East Hall

\* With reference to medical course see "Medicine."

## HISTORY AND ORGANIZATION OF GRADUATE INSTRUCTION

As early as 1881 the University of California had a small number of "resident graduates," and the faculty had arrived at the determination to bestow higher degrees only on the completion of prescribed courses of advanced study. The degree of Ph.D. was bestowed once only as an honorary degree (1881). In 1885 it was bestowed for the first time for the successful completion of graduate studies in residence. In that year the University had six graduate students "pursuing advanced studies under the direction of the faculty." In 1885 and 1886 the University had one graduate student in candidacy for the degree of M.A. and seven pursuing special subjects. The Register for 1886-87 announced in detail the conditions of residence and scholarship for the attainment of Doctor's and Master's degrees. Candidates for higher degrees were required to be graduates of the academic department of this University or of some other university or college of acknowledged good standing. The candidate for the degree of Doctor of Philosophy was required to pursue an approved course of study for a period of at least three years, two spent in residence at the University, pass a final examination and produce an acceptable thesis. The candidate for a Master's degree was required to pursue an approved course of study for a period of at least one year, pass an examination and present an acceptable thesis.

In November, 1895, the Academic Senate created a standing committee to be known as the Graduate Council, to consist of the President of the University, the heads of departments and other professors in the colleges in Berkeley engaged in the work of graduate instruction, and to have general control of the work of graduate students.

This remained the organization for the administration of graduate work for more than fifteen years. In 1911, however, the need had been felt for an organization more adapted to the growth of faculty membership and student body, and accordingly on February 16, 1911, the Graduate Council unanimously recommended that its own powers and duties revert to the Academic Council.

Under the new plan the administration of work of graduate students is transferred to a body called the Committee on Higher Degrees, to consist of two ex officio members, the Dean of the Graduate School and the Dean of the Faculties, and not less than thirteen other members appointed by the President. This body has authority to admit students to graduate status, to advance them to candidacy for higher degrees and to supervise their work.

From 1875 to 1917, inclusive, the University of California bestowed 400 degrees of Master of Science, 244 of Master of Letters, 617 of Master of Arts, 7 of Graduate in Architecture, 1 of Graduate in Education, 6 of Graduate in Public Health, 144 of Juris Doctor, 1 of Civil Engineer, 1 of Electrical Engineer, 181 of Doctor of Philosophy.



## UNIVERSITY OF CALIFORNIA PUBLICATIONS

In order to make immediately available for others such contributions to knowledge as may develop in the prosecution of research work by its members, the University issues several series of publications representing most of the subjects in which original work is in progress. The articles included in this series represent the results of previously unpublished original investigation carried on in connection with the work of the University. This medium of publication is open to any member of the University, the papers being accepted solely on the basis of merit as new and original work. Results of research work done by advanced students, including theses for higher degrees, may be accepted for publication by the University on the same footing with other contributions to knowledge.

The University of California Press issues series of publications under the general title of *University of California Publications* in the following subjects: Agricultural Sciences, American Archaeology and Ethnology, Astronomy, Botany, Classical Philology, Economics, Education, Engineering, Entomology, Geography, Geology, History, Mathematics, Modern Philology, Pathology, Philosophy, Psychology, Semitic Philology, and Zoology. The University publishes also a quarto series, entitled *Memoirs of the University of California*; the *University of California Chronicle*, a quarterly journal; a *Monthly Meteorological Synopsis of Berkeley*, a semi-annual *Bulletin of the Seismographic Stations*; a Prize Essay series; a Library bulletin, and the circulars and bulletins of the Agricultural Experiment Station.

A circular containing a list of the publications of the University may be obtained by application to the University Press.

Detailed statements regarding the following will be found in the CIRCULAR OF INFORMATION, August, 1917, which is Part I of this REGISTER.

Fellowships and Graduate Scholarships for the Academic Year 1917-18;

Prizes;

Appointment Registry;

Summer Session;

Expenses of Students;

Site and Climate of Berkeley.

## **STATEMENT OF CONDITIONS OF ADMISSION, CANDIDACY, AND DEGREES IN THE GRADUATE DIVISION**

### **GRADUATE COURSES**

Advanced instruction, leading to the degrees of Master of Science, Master of Arts, Graduate in Architecture, Graduate in Education, Graduate in Public Health, Juris Doctor, Mechanical Engineer, Civil Engineer, Metallurgical Engineer, Mining Engineer, and Doctor of Philosophy, is offered by the University of California to graduates of any recognized college or university.

The University Library contains about 340,000 volumes, not including the material contained in the Bancroft Collection. The Library is admirably adapted, so far as its extent allows, for purposes of advanced study and research.

The laboratories are extensive and well equipped and every facility is afforded for research work in pure and applied science.

### **REQUIREMENTS FOR THE TEACHER'S RECOMMENDATION**

Professional training for students who desire to teach is offered by the University through the School of Education, in which departments that offer special teachers' courses are represented. The requirements for the Recommendation for the Teacher's Certificate are given below under the School of Education.

## **REGULATIONS OF THE FACULTIES CONCERNING GRADUATE STUDENTS**

### **I**

#### **ADMISSION TO GRADUATE STANDING**

Persons holding a Bachelor's degree in Arts, Letters, or Science from a reputable institution authorized by law to confer these degrees, or holding any other degree or certificate which the Graduate Council may accept as equivalent, may be admitted to the Graduate Division upon presenting official credentials.

Graduates of the institutions constituting the Association of American Universities and of many other institutions are admitted to the Graduate Division upon presentation of their Bachelor's diploma at the office of the Recorder of the Faculties. Graduates of institutions not in the accepted list of the University may be admitted to the Graduate Division with

the approval of the Dean of the Graduate Division after an evaluation of their certified college record by the University Examiner. Admission to the Graduate Division does not imply admission to candidacy for a higher degree.

The grade of work which graduate students may elect and their standing as candidates for degrees will depend upon the extent and character of their undergraduate course. If the preliminary training of candidates has not been sufficient to qualify them for strictly graduate work in any department, they must undertake such undergraduate courses as may be suited to their needs.

## II

### CANDIDACY AND RESIDENCE

Students in the Graduate Division are classified as resident graduate students or as graduate students in absence. Resident graduate students register with the Recorder of the Faculties on a day set aside for that purpose at the opening of each session, in August, in January, or in June. Graduate students in absence may complete their registration only with the approval of the department or departments in which studies are to be pursued and of the Dean of the Graduate Division, from whom blank forms for graduate study in absence may be obtained. If necessary, registration for graduate study in absence may be arranged by correspondence with the Dean.

All graduate students, whether in residence or in absence, are required to renew their registration at the University at the beginning of every regular session (August, January).

No graduate student is considered as a candidate for any degree unless he is expressly advanced to candidacy by the Graduate Council upon formal petition. At least one half-year must elapse between formal advancement to candidacy for any degree and the conferring of the degree. Registration as a resident graduate student must, except for graduates of the University of California, precede formal advancement to candidacy for a higher degree. If a student who has pursued graduate studies in absence later becomes a resident student and a candidate for a higher degree, the work done in absence will be given due consideration on its merits, but in every case except that of candidacy for certain advanced degrees in engineering at least one year in residence at the University is required.

Residence at the Lick Observatory at Mount Hamilton, at the Herstein Research Laboratory at New Monterey, at the Southern California Pathological Laboratory at Whittier, at the Graduate School of Tropical Agriculture at Riverside, at the Scripps Institution for Biological Research at La Jolla, or at the University Farm at Davis is residence at

the University for such students as have been appointed to work at any of these places. Residence wherever a student may be directed by the Faculty to prosecute regular research is regarded as residence at the University.

Two summer sessions, devoted to an approved course of study, may be rated as the equivalent of one half-year for purposes of residence, and registration in summer sessions, with satisfactory completion of the week each half-year, in order to satisfy the minimum residence requirement in candidacy for any higher degree.

Candidates for degrees may, at the discretion of the Graduate Council, be given credit for work taken at other universities, but such allowance of credit ordinarily will not reduce the minimum period of one year of residence required at the University of California.

Every graduate student must register for, attend, and complete upper division major or graduate courses amounting to at least four units per week each half-year, in order to satisfy the minimum residence requirement in candidacy for any higher degree.

### III

#### CONDITIONS FOR A BACHELOR'S DEGREE FOR A GRADUATE STUDENT

Graduate students may be recommended as candidates for the degree of Bachelor of Arts or Bachelor of Science on completing at least twenty-four units during one or more years of attendance upon such courses of instruction as are regularly pursued by seniors in the University of California, and on performing such additional work and passing such examinations as may appear necessary to the Academic Senate. In all cases candidates must satisfy the graduation requirement of thirty-six units of advanced studies (as set forth in the Circular of Information) in the College of Letters and Science, or their equivalent in the colleges of applied science, not all of which, however, need have been done while in residence at this University. No person will be recommended for a bachelor's degree who shall not have satisfied substantially, at the time of procedure to the degree, the conditions imposed upon undergraduate students at the University of California.

### IV

#### REQUIREMENTS FOR THE MASTER'S DEGREE—M.A., OR M.S.

*Preliminary Preparation.*—The preliminary training of the candidate for any of the above masters' degrees should be substantially the equivalent of that represented by the corresponding bachelor's degree of the University of California. A bachelor's degree in the University of Cali-

fornia represents eight years of systematic high school and collegiate work distributed according to the requirements of the university for the particular college or course in which the student takes his degree. If the candidate's undergraduate course is found to be in any serious respect deficient as to breadth or fundamental training, or fails to provide a proper foundation for advanced work in the department or departments of the candidate's choice, it may be necessary for him to devote some time to undergraduate courses, and this may involve a longer period of residence than would normally be the case.

A graduate from an institution in the accepted list is admitted to candidacy for a master's degree at the University of California on an equality with a graduate of the University of California if his college course has included thirty-six units of advanced studies, with fifteen units in the department of his major subject. Such a student is not required to undertake additional work unless specifically required by the department of his major subject.

*Amount and distribution of work.*—There are required eighteen units, and in addition thereto a thesis. The courses must be graduate courses or undergraduate major courses. At least six of the eighteen units must be strictly graduate work in the major subject; and, of these six, at least four must consist of a seminar or research course or courses. It is expected that the work of the seminar or research course, together with the thesis, should ordinarily amount to not less than half of the entire work presented for the degree. Provided the foregoing requirements be met, the work may be distributed in any way that shall be satisfactory to the department in charge of the major subject, which department will supervise the student's work during his candidacy.

*Residence (attendance) required.*—The student must be in residence at least one year. Two summer sessions may be rated as the equivalent of one half-year for the purposes of residence. A student is not regarded as a student in residence unless he is actually attending regularly authorized university exercises at least four hours, or laboratory periods, per week of major or graduate grade during a regular session, or of at least two hours during a summer session. Students planning to offer Summer Session courses in partial fulfilment of the requirements for a higher degree or the Recommendation for the High School Teacher's Certificate should be careful to select only courses especially designated in the Summer Session Announcement as acceptable for this purpose. While ordinarily all of the work for the master's degree is expected to be done in residence, graduates of this University or other approved candidates may complete a part of their work in absence.

**Thesis.**—The thesis must be typewritten or printed; if typewritten, the page must be 8½ x 10 inches, and record ink must be used; if printed separately, it must be uniform in style and size with the University of California Publications. Exceptions are authorized only in drawing, architecture, and engineering. The thesis must be approved by the department in charge of the candidate's work and must be filed with the University Librarian before the degree can be conferred.

**Master's Degree for Students in the Professional Colleges.**—Graduates of this University who are pursuing regular courses leading to a degree in a professional college of this University may receive a master's degree under the following conditions:

(a) The candidate must have finished creditably two years of the curriculum of the professional college.

(b) He must have received credit, in addition to his work for the professional degree, for a seminar or research course of the value of four units, and such seminar or research course must be approved by the Graduate Council, and he must present a dissertation or thesis, subject to the usual regulations for the master's degree.

## V

### THE DEGREES OF GRADUATE IN ARCHITECTURE, GRADUATE IN EDUCATION, AND GRADUATE IN PUBLIC HEALTH

The specific requirements for the degrees of Graduate in Architecture and Graduate in Public Health are given in the Circular of Information, August, 1917, which is Part I of this Register.

The specific requirements for the degree of Graduate in Education are given below under the School of Education.

## VI

### THE DEGREE OF JURIS DOCTOR

A candidate for the degree of Juris Doctor must hold a bachelor's degree from the College of Letters and Science or the College of Commerce of this University, and must have taken among the advanced studies required for such degree fifteen units in the department of jurisprudence according to the regulations of that department, or must have pursued successfully a course of study equivalent to that represented by such degree together with such advanced studies in jurisprudence. A course of study extending over a period of at least two years must be selected by the candidate from a curriculum approved by the Graduate Council. A dissertation must be presented not later than the first day of the examination period appointed for the final examinations for the degree of Juris Doctor.

## VII

## THE DEGREE OF DOCTOR OF PHILOSOPHY

The work for the degree of Doctor of Philosophy is grouped under certain general headings, such as: I. Intellectual and Moral Philosophy; II. History and Political Science; III. Philological Science; IV. The Natural Sciences.

These groups, however, are by no means intended to be exhaustive.

Technical studies may be included in the minor subjects when specifically approved for graduate study in connection with the major subject by the Graduate Council.

*Preliminary Preparation.*—A candidate for the degree of Doctor of Philosophy must hold a bachelor's degree from one of the colleges of this University, based upon a curriculum that shall have included the requirements for a junior certificate, or must have pursued successfully a course of study equivalent to that represented by such a degree. A reading knowledge of French and German will be insisted on in all cases.

*Plan of Study.*—A course of study must be selected by the applicant from the groups above, and approved by the Graduate Council, embracing one principal and one, or two, subsidiary subjects, and extending over a period of at least two years, the last one of which ordinarily must be spent in continuous residence at this University. The work offered as the basis for the principal subject must be equivalent to that classed as "primarily for graduates."

The relation of the subsidiary subjects to the principal subject, and the number of them, will depend largely on the character of the proposed course as a whole, and on the student's general attainments. The applicant should be very careful to seek advice in the matter from the officers of the departments in which he wishes to study. The course as a whole must be rationally unified, and all of its constituent parts must contribute to some one general object of research and study; for the subsidiary subjects, by the very meaning of the term, are auxiliaries of the principal subject. Yet over-specialization is discouraged, and ordinarily a course lying wholly within a single department of instruction will not be approved. Candidates will be required to do as much work in the subsidiary subjects as may seem necessary in the judgment of the Graduate Council and of the instructors in immediate charge of each student's candidacy. It is expected that the principal subject will demand at least half of the candidate's time and efforts, or even two-thirds if but one subsidiary subject be chosen.

A candidate for the degree of Doctor of Philosophy must carry on his studies under the general direction of the Graduate Council; but the immediate direction of the candidate's work is entrusted to a sub-committee composed of the professor in charge of the major subject, as

chairman, of the professors in charge of the minor subjects, as associates, and of such other persons as may from time to time be named by the Graduate Council.

*Annual Report.*—Every candidate for the degree of Doctor of Philosophy must present to the Dean of the Graduate Division, not later than the first day of May in each year, a detailed written report, signed by the instructors and approved by the sub-committee, of the studies actually pursued during the year. Any candidate failing to comply with this requirement will be considered to have withdrawn from candidacy. It is the duty of the candidate to consult the several members of his sub-committee at suitable intervals, and at least once each half-year, concerning his plans of study.

*Examination and Thesis.*—The degree of Doctor of Philosophy is given, not for the mere reason of faithful study for a prescribed time or in fulfilment of a determinate programme, and never for miscellaneous studies, but on the ground of long study and high attainment in a special branch of learning, manifested not only by examinations but by a thesis bearing upon the principal subject of the course and of such a character as to show power to prosecute independent investigations. The thesis must be presented to the Graduate Council through the Dean of the Graduate Division, upon a date to be determined and announced, and in any event prior to the final examination for the degree. The thesis must receive the approval of the Graduate Council before the degree is recommended.

Before the degree is recommended, the thesis or a substantial abridgment thereof must be published, or the candidate must give satisfactory evidence that the thesis will be accepted by some approved publication. Twelve copies of the printed thesis must be presented to the Library. Two weeks before the final public examination, two copies of the original text of the thesis must be in the hands of the Dean of the Graduate Division for faculty inspection. These copies will also be deposited in the Library. When printed as parts of journals or transactions, dissertations or theses shall bear a suitable inscription, to be determined by the Editorial Committee, to the effect that the dissertation is submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy in the University of California.

The degree of Doctor of Philosophy will not be conferred until the candidate shall have passed a special examination in each of the subjects presented for the degree, of such a character and at such time as may be determined by the sub-committee in charge, and subsequently thereto shall also have passed a public oral examination in the general field of his work, conducted by the sub-committee, with special emphasis upon familiarity with contemporary research.



## VIII

## CONDITIONS FOR DEGREES IN ENGINEERING

## THE DEGREE OF MASTER OF SCIENCE

A candidate for the degree of Master of Science in any College of Engineering (Mechanical, Mining, or Civil) of the University of California must hold the degree of Bachelor of Science in that college of this University or must have completed a course of study formally accepted as an equivalent.

His application for candidacy, his general course of study, and the subject of his dissertation must be approved by the Graduate Council.

He must reside at least one academic year at this University, must complete to the satisfaction of the Academic Senate and under its direction and control a course of study represented by not less than twenty units of work, including a dissertation bearing upon the principal subject of the course and of such a character as to show power to prosecute original research. The dissertation must be presented not later than the first day of the period appointed for the examination for the degree. Regulations concerning filing of the thesis are the same as for the master's degree in the College of Letters and Science.

Upon the approval of an application for candidacy, a sub-committee will be appointed by the Graduate Council to supervise the work of the candidate and pass upon his dissertation and his qualifications for the degree.

In general, choice of subjects will be limited to the following list; but additions to this list may be made with the approval of the Council of Engineering and Applied Chemistry of the Academic Senate.

- |  |   |
|--|---|
| 1. Thermodynamics                          | 10. Testing of Materials                  |
| 2. Steam and Gas Engineering               | 11. Irrigation Engineering                |
| 3. Hydraulics                              | 12. Railroad Engineering                  |
| 4. Machine Design                          | 13. Sanitary and Municipal<br>Engineering |
| 5. Kinematics                              | 14. Geodesy                               |
| 6. Electrical Engineering                  | 15. Physics                               |
| 7. Mining, Metallurgy, and Ore<br>Dressing | 16. Chemistry                             |
| 8. Geology and Mineralogy                  | 17. Mathematics                           |
| 9. Structural Design                       | 18. Economics                             |

**THE DEGREE OF ENGINEER***First Method*

A candidate for the degree of Mechanical Engineer, Electrical Engineer, Mining Engineer, Metallurgical Engineer, or Civil Engineer must be a graduate of the appropriate college of this University, or must have successfully completed an amount of work equivalent to the regular undergraduate course in that college.

The candidate for the degree of Mechanical Engineer or Electrical Engineer must pass satisfactory examinations in the following studies: Thermodynamics; construction of hydraulic motors and thermal prime movers; electromagnetic machinery and accessories; machine construction and general machine design. For the degree of Mining Engineer the subjects are: Mining; ore dressing; petrography; economic geology; thermodynamics; construction of mining machinery; political economy. Metallurgical engineers must show proficiency in metallurgy; ore dressing; assaying; analysis; thermodynamics; construction of furnaces, metallurgical machinery; political economy. The Civil Engineering candidate must select a course of study embracing one primary and two subsidiary subjects from the following suggested lists: I. Primary subjects: metal structures; masonry construction; concrete steel structures; cements, mortars, concretes; water supply engineering; sewer systems; water supply and sewage purification; railroads; roads and pavements; river and harbor improvements; irrigation; canals; tunnels; testing of materials. II. Subsidiary subjects: subjects in mining, metallurgy, chemistry, mechanical and electrical engineering, astronomy, geodesy, economics, physics. Subsidiary subjects may also be chosen with proper approval from the primary group, but in such cases they need not be so exhaustively treated as when taken for primary work.

A candidate for the degree of Engineer in any of the groups named must have engaged for at least one year in professional work in addition to the time spent in graduate study. He must present an original memoir upon some subject bearing upon his profession. The degree will not be given earlier than three years after the completion of the undergraduate work. The memoir or thesis must bear upon the principal subject of the course and be of such character as to show power to prosecute independent investigation and also ability to take responsible charge of important engineering work. The thesis must be presented to the Graduate Council through the Dean of the Graduate Division for approval at least three months previous to the final examination for the degree. Special emphasis will be laid upon the requirement of a thesis and a degree will in no case be given merely for the faithful completion of a course of study or the practical prosecution of an ordinary piece of engineering

work. A reading knowledge of French or German is essential for the degree.

Residence and study for a Master's degree in any one of these branches of engineering may also be counted in candidacy for the degree of Engineer if in accordance with the provisions contained in the preceding paragraphs.

The division of time, study, and research among the principal and subsidiary subjects for the Engineer's degree must be approved by the sub-committee in charge of the student. Every candidate must present to the Graduate Council not later than the first day of May of each year a detailed written report of the studies and work actually pursued during the year, certified to by all members of the committee in charge. Any candidate failing to comply with this requirement unless excused for cause will be considered to have withdrawn from candidacy.

The degree of Engineer will not be conferred until the candidate shall have appeared before the sub-committee in charge and shall have satisfactorily passed upon the studies pursued in such examinations, public and oral, as may be deemed necessary to show distinguished attainment in the principal subject.

#### *Second Method*

As an alternative for the procedure above outlined, any of the foregoing degrees in engineering may be conferred upon a candidate who meets the following conditions:

(a) He must be a graduate of the University of California, in any of the colleges of letters, sciences, or engineering and of not less than ten years' standing.

(b) He must give evidence of exceptionally successful professional work in the particular branch of engineering in which the degree is sought.

(c) His application must have been reported upon favorably by a committee composed of the Dean of the Faculties, the Dean of the Graduate Division, and the three Deans of the Colleges of Engineering.

(d) He must present an acceptable thesis, specially prepared for this purpose. He should consult the Dean of the Graduate Division concerning the form of the thesis and the number of copies required.

The year, or years, of residence and the final examination in graduate status will be remitted for any candidate who meets the requirements *a-d* above.

## THE SCHOOL OF EDUCATION

---

### EXTRACTS FROM AMENDED REGULATIONS OF THE STATE BOARD OF EDUCATION OF CALIFORNIA GOVERNING HIGH SCHOOL CERTIFICATION

#### *Regular Certification by County Board of Education*

The law provides that the State Board of Education shall prescribe general rules under which county boards and city and county boards of education may grant regular certificates of high school grade.

This revision has been made in the interest of clearness, and to bring the California requirements into harmony with the best practice of other states and recent legislation. These regulations shall apply to all candidates receiving their university recommendations after January 1, 1917.

#### I. REQUIREMENTS

High school certificates may be issued by county and city and county boards of education under the provisions of section 1519, subdivision 5 (a); section 1775, subdivision 1 (a), and section 1792 of the Political Code of California, to candidates who meet all of the following requirements, to wit:

(1) *Requirement of Bachelor's Degree.*

Each candidate shall have received a Bachelor's degree from a standard college requiring not less than eight years of high school and college training.

(2) *Requirement of One Year of Graduate Study.*

Each candidate shall submit evidence that in addition to the academic and professional courses required for the Bachelor's degree, he has completed at least one year of graduate study, doing full regular work, though not necessarily a candidate for a degree, in an approved graduate school. Such graduate study shall include at least one full year course of advanced or graduate work in at least one of the subjects in which candidate expects to be recommended for certification. (See "Exemptions," III.)

(3) *Requirement of Fifteen Units of Work in Education.*

Each candidate shall also submit evidence that he has completed in undergraduate or graduate standing, or the two combined, not less than fifteen units (semester hours) in courses listed in the department of education in the institution in which the graduate work is completed,

or courses in other departments of that or other institutions accepted as preparation for teaching by the department of education. These fifteen units of work shall include the several courses in education hereinafter prescribed.

## II. DEFINITIONS

### (1) *Full Regular Work.*

The department of education of the institution in which the graduate work is done shall define what constitutes full regular work, referred to in requirement 2.

### (2) *Work in Department of Education.*

The department of education of such institution shall have full charge of the acceptance of work of a professional nature referred to in requirement 3.

### (3) *Required Work in Education.*

The required fifteen units of work in the department of education shall include the following courses:

(a) A course in school and classroom management, or equivalent work—a minimum of one unit.

(b) Work in actual practice of teaching, with conferences—a minimum of four units.

(c) A teacher's course in at least one subject in which the candidate expects to be recommended for certification, if such course be given in the institution and be accepted by or listed under the work in education—a maximum of three units for all such courses.

(d) A course in secondary education, presenting particularly the purpose and attainable goals of high school work—a minimum of two units.

(e) Such other courses relating to the theory, function and administration of public education, as are needed to complete the required fifteen units.

### (4) *Practice Teaching.*

The work in practice teaching shall be done under the general supervision of the department of education of the institution in which the year of graduate work is taken, and may be done in schools of elementary, intermediate, or secondary grade, though preferably in secondary school work of the kind the candidate is preparing to teach, and under the direction of competent instructors in such work. The work in practice teaching may also be done in connection with the training school of any California state normal school.

### (5) *Teachers' Courses.*

Each teacher's course shall be a bona fide teacher's course and shall be made as concrete and practicable as possible, and shall have for its

purpose the preparation of teachers to give intelligent instruction in the subject in the high schools of this state.

(6) *Basis of Recommendation.*

The department of education of each university shall fix the standard of requirement in the several subjects, and each programme as a whole must be approved by the department of education.

### III. EXEMPTIONS

1. Candidates who have taught for not less than one year (eight months) in any elementary or secondary school, and who present credentials showing that they have done so with reasonable success, may be excused from four of the fifteen units of education represented by the practice teaching, and may also be allowed to substitute other work in education for the course in school and classroom management.

2. Candidates who have taught or been engaged in school supervision for not less than seventeen months in this or any other state, and who present credentials showing that they have done so with reasonable success, may be excused from all requirements of pedagogical work set forth in 11, 4, above, but must submit evidence of having had at least one full semester of advanced academic work, taken subsequent to the conferring of bachelor's degree.

3. Graduates of California state normal schools, or of other normal schools accepted by the State Board of Education as of equal rank, may be exempted from one-half of the graduate study, including all required courses in education, except the course in secondary education, and the teachers' course or courses in the special subject or subjects in which the candidate expects to be recommended for certification, if such be offered.

4. Candidates may complete one-half of the year of required post-graduate work in an approved graduate school, as hereinbefore defined, and the other half-year in any California state normal school which offers a special half-year (or two terms) of full-time instruction, especially selected for college graduates preparing for high school certification in California, and approved by the State Board of Education, and upon completion of a full year of postgraduate work arranged according to the provisions of this section, shall be entitled to the same exemptions from the required work as are given normal school graduates who complete their work in an approved university, as stated in exemption 3 above. The half-year of normal school work may precede or follow the half-year of work in an approved graduate school, as the candidate may prefer.

5. Holders of bachelor's degrees granted by the University of California, Leland Stanford Junior University, and the University of South-

ern California, who have completed the required fifteen units of work in education, including practice teaching, and who have completed one major and one minor in subjects taught in the high schools of the state, may elect to spend such year in post-graduate study at the California State Library School, following a course especially selected for college graduates preparing for high school certification in this state, provided that each candidate entering the California State Library School shall first secure the approval of the head of the department of education of the university from which he expects to be recommended for the high school certificate.

A major is hereby defined as not less than twenty-four units of work in a subject, of which twelve units must be in advanced courses.

A minor is hereby defined as not less than six units of work in advanced courses.

Only advanced courses taken during the junior, senior, and graduate years shall be counted toward the advanced work required.

#### IV. RECOMMENDATIONS

##### (1) *Recommendation from Graduate School Required.*

When the required graduate work is completed to the satisfaction of the university in which such work is done, such university shall issue to the candidate, on application, a formal recommendation to county, and city and county boards of education, stating that the candidate has satisfactorily completed all the requirements established by the State Board of Education for recommendations for the high school certificate in California, and that the candidate is worthy, in the judgment of the university issuing the recommendation, to receive a high school certificate in any county, or city and county in this state, under the provisions of sections 1519, 1775, and 1792 of the Political Code of California.

If the candidate has elected to take one half-year of the required graduate work in an approved graduate school, and the other half-year in a California state normal school, as provided in exemption 4 above, the university in which such graduate work is done shall recommend the candidate in the academic or non-professional work and the normal school in which the professional work is done shall recommend the candidate in such professional work.

##### (2) *Major and Minor Subjects to be Set Forth.*

Each recommendation shall state on its face the major and minor subjects which the holder thereof has taken in the institution, or the kind of work the candidate is qualified to do. A transcript of record showing the courses taken in the university and the numbers of units obtained in each course according to such form as the university may prescribe shall appear on the back of the recommendation.

(3) *Form of Recommendation.*

All recommendations shall be on printed forms, bearing the name of the university issuing them; shall be issued by the recorder, registrar, or secretary of the university; shall bear the approval of the department of education in the university and shall state in which college or university the bachelor's degree was taken.

In case the candidate has elected to spend one-half the graduate year in a California state normal school, following the special course for college graduates hereinbefore defined, the recommendation shall so state, and the president of such normal school shall make the recommendation covering the professional preparation of the candidate, and the recorder, registrar, or secretary of the university shall make the recommendation covering the academic, non-professional work.

In recommendations for the high school certificate issued in accordance with III, 5 above, the university, through its recorder or registrar, shall vouch for the undergraduate work of the candidate, the head of the department of education in the university shall vouch for the courses in education, and the State Librarian shall vouch for the postgraduate work.

*A recommendation granted by any approved graduate school, other than the University of California, Leland Stanford Junior University, and the University of Southern California, shall not be valid unless approved on its face by the Commissioner of Secondary Schools.*

STATE BOARD OF EDUCATION,  
By EDWARD HYATT, Secretary.

*Extracts from Regulations Governing Educational Institutions Accredited  
to Recommend Individuals for Special Certificates, as Published in  
Bulletin No. 10 of the State Board of Education, 1915*

Educational institutions accredited by the State Board of Education are hereby authorized to recommend to county or city and county boards of education, individuals who are qualified to receive certificates to teach special subjects in the public, elementary, and secondary schools of the State of California; provided, that each institution may recommend individuals only in such special subjects and for such grades of certificates as are mentioned in said authorization; and provided further, that they recommend candidates for the elementary or secondary special certificates only as follows:



## SECONDARY SPECIAL CERTIFICATES

Educational institutions may recommend an individual for the secondary special certificate; provided (a) that such individual has had at least four years' instruction beyond that required for graduation from a high school maintaining a four-year course in advance of the eighth grade, or that he possess an equivalent amount of training; (b) that at least one-half of said four years' instruction has been devoted to study or work in the special subject or subjects in which the individual is applying for certification and in such subjects as are strictly supplementary thereto, as arranged and approved by the recommending authorities of the institution in which the work was taken, or that he possess an equivalent amount of special training; (c) that at least two-fifths of a year of the time required to be given to the special subject or subjects has been devoted to a study of the pedagogical subjects suited to the training of a secondary school teacher; at least one-half of which time shall be devoted to practice-teaching, including methods of instruction in the special subject or subjects, under competent supervision.

## VALUE OF CERTAIN EQUIVALENTS

Time devoted in the secondary school period to study or work in the special subject or subjects in which the candidate desires certification may be substituted at the rate of half time for similar studies or work in the collegiate period. Such substitution shall not exceed one-half of the total time required in the special subject or subjects. One year's successful experience in teaching may be substituted for half of the required pedagogical work, and two years of said experience may be substituted for the entire pedagogical requirement.

## REQUIREMENTS FOR THE RECOMMENDATION FOR THE HIGH SCHOOL CERTIFICATE

Candidates for the high school teacher's recommendation must complete the requirements specified by the State Board and by the department of education acting in accordance with the regulations of the State Board as well as the following academic requirements:

1. A graduate course, other than a teacher's course, of not less than two units, in a department in which the candidate has completed not less than twelve units of major courses, or an equivalent.
2. A major and three minors or two majors and one minor; but on the recommendation of the School of Education one major and two minors or two majors may be accepted. In every case, however, two of the following divisions of university studies must be represented:

- (1) English.
- (2) Ancient foreign languages.
- (3) Modern foreign languages.
- (4) Philosophy, education.
- (5) History, political science, anthropology.
- (6) Jurisprudence.
- (7) Economics.
- (8) Mathematics, astronomy, physics, chemistry.
- (9) Geography, geology, mineralogy, palaeontology.
- (10) Botany, zoology, anatomy, physiology.
- (11) Pathology, bacteriology, hygiene, physical education.
- (12) Architecture, drawing, art.
- (13) Music.
- (14) Agriculture.
- (15) Engineering.
- (16) Household science and art.
- (17) Commerce.

A major shall comprise not less than a total of twenty-four units, and not more than a total of thirty units, of which at least twelve shall consist of major or graduate courses in one department, or of twelve units of correlated major or graduate courses in more than one department. Detailed statements in regard to majors in the several subjects may be found in the Bulletin of the School of Education.

A minor shall comprise not less than six units of major courses in one department, which ordinarily implies not less than a total of twelve units including prerequisites. As far as the modern foreign languages are concerned, minors of less than twelve units of major courses will not ordinarily be approved. A "minor (r)" denotes a "minor" plus a recommendation.

Major and minor subjects studied elsewhere may be designated on the recommendation form adopted by the State Board of Education, provided the name of the institution concerned is indicated also.

#### REQUIREMENTS FOR THE RECOMMENDATION FOR THE SPECIAL SECONDARY CERTIFICATE

1. Candidates for the recommendation for a special secondary certificate must complete successfully the requirements in their chosen subject for a major for the general high school certificate.

2. The recommendation of the department of education will be based in each case on the action of the School of Education through its committee on high school certificates.

COMMERCE

The applicant must be a graduate of the college of commerce or have a substantially equivalent training. To obtain a recommendation for a special certificate in any one of the groups of subjects mentioned in the rules of the State Board of Education the applicant must meet the foregoing requirement and must have credit for 12 units of work in that particular group.

AGRICULTURE

By arrangement with the department of education the one-fifth of a year (6 units) required by the State Board of Education for the secondary special certificate under Section c, page 2, bulletin No. 10 of the California State Board of Education "to be devoted to practice teaching including methods of instruction in the special subject or subjects under competent supervision" may be offered in the division of agricultural education.

REQUIREMENTS FOR THE DEGREE OF GRADUATE IN  
EDUCATION

*Preliminary Preparation.*—The preliminary training of the candidate for the degree of Graduate in Education is the same as that for the degree of Master of Arts, regarding which a statement is given on page 10 of this announcement.

*Amount and Distribution of Work—Residence.*

1. The candidate must have completed not less than four years of successful professional experience.

2. The candidate must complete two full years of graduate study, one of which must have been spent at the University of California.

3. The candidate must complete a minimum of thirty-six units of upper division and graduate work distributed as follows:

(a) A minimum of twelve units of courses in education based on a "group elective" in education, or its equivalent, and including at least four units of seminar work during the second year, this twelve units, together with professional experience and a professional thesis, to constitute the candidate's "major."

(b) A minimum of twelve units of advanced work in a minor.

(c) A professional thesis and an examination both to be under the direction of the School of Education and both to be subject to the usual rules of the Graduate Council.



**REGISTER—PART XIII**

**COMMENCEMENT, 1917**

**MAY, 1917**



**University of California**

***The Fifty-fourth Commencement***

***May, 1917***

**GREEK THEATRE  
BERKELEY, MAY 16**





# PROGRAMME

---

## Invocation

BISHOP WILLIAM FORD NICHOLS, D.D.

## The New Patriotism and the University of the Future

DORIS ELIZABETH MCENTYRE

Cand. A.B., College of Letters and Science

## Mobilizing for the New Freedom

HARRY MILLER CREECH

Cand. LL.B., Hastings College of the Law

## Science and National Service

ALBERT LLOYD BARROWS

B.S. (Pomona College) 1906; M.S. 1912

Cand. Ph.D., Graduate Division

## The Future of Internationalism

HAROLD ALFRED BLACK

Cand. A.B., College of Letters and Science

## Changing Standards of Value

HAROLD ANTHONY HYDE

Cand. A.B., College of Letters and Science

## Delivery of Military Commissions

## Address to the Candidates for Degrees; Conferring of Degrees and Honors

THE PRESIDENT OF THE UNIVERSITY

## Hymn

O God, our help in ages past,  
Our hope for years to come,  
Our shelter from the stormy blast,  
And our eternal home.

Before the hills in order stood,  
Or earth received her frame,  
From everlasting Thou art God,  
To endless years the same.

A thousand ages in Thy sight  
Are like an evening gone;  
Short as the watch that ends the night  
Before the rising sun.

O God, our help in ages past,  
Our hope for years to come,  
Be Thou our God while life shall last,  
And our eternal home.

## Benediction

## AMERICA

My country, 'tis of thee,  
Sweet land of liberty,  
Of thee I sing;  
Land where my fathers died,  
Land of the pilgrims' pride.  
From every mountain-side  
Let freedom ring.

My native country, thee,  
Land of the noble free,—  
Thy name I love;  
I love thy rocks and rills,  
Thy woods and templed hills;  
My heart with rapture thrills  
Like that above.

Let music swell the breeze,  
And ring from all the trees,  
Sweet freedom's song;  
Let mortal tongues awake,  
Let all that breathe partake,  
Let rocks their silence break,—  
The sound prolong.

Our father's God, to Thee,  
Author of liberty,  
To Thee I sing;  
Long may our land be bright  
With freedom's holy light;  
Protect us by thy might,  
Great God our King.

## UNIVERSITY OF CALIFORNIA

### DEGREES CONFERRED, 1916-17

The asterisk (\*) marks the names of candidates on whom degrees were conferred December 22, 1916.

#### California College of Pharmacy

##### The Degree of Graduate in Pharmacy upon

Joseph Leonard Abreu .....	Oakland
Homer Lucian Asselin .....	San Jose
James Bourland Berger .....	Berkeley
Roy Richard Bravin .....	Reno, Nevada
Ellsworth Myrl Cipperly .....	Modesto
Harry Erving Claubes .....	Porterville
Clinton George Davis .....	Modesto
George Turner Donaldson .....	Liberty, Missouri
Norman Clyde Guinn .....	Porterville
Sailendra Nath Gupta .....	Calcutta, India
Elmer Leonard Gustafson .....	Selma
Irby Carl Hallford .....	Porterville
Ida May Hammers .....	Newman
Ralph A Harris .....	Tillamook, Oregon
Clifford Frank Hawkins .....	Berkeley
Edward Frederic Henle .....	Woodland
George Washington Johnson .....	Alameda
Kiyoshi Matsumura .....	Oakland
Hugo Lucia Menke .....	San Francisco
Henry Isadore Mishkind .....	San Francisco
Emory Julius Moltzen .....	Fresno
George Francis Murphy .....	Yountville
Walter John Murphy .....	Petaluma
Waldo Hays Pate .....	Paso Robles
Ernest Campbell Pruess .....	Paso Robles
Ainsley Meredith Ring .....	Ferndale
Harold Leroy Rogers .....	Modesto
John Ray Russell .....	Santa Rosa
Hugh Elbert Rutherford .....	San Rafael

## 6 Graduates in Pharmacy; Pharmaceutical Chemists. Doctors—Dentistry

LaMotte Holmes Stinson .....	Arbuckle
Lester Allen Upham .....	Bio Vista
Emory Lewis Wyckoff .....	Napa

### The Degree of Pharmaceutical Chemist upon

George Francis Murphy .....	Yountville
John LeRoi Parks .....	Richmond
Ph.G. 1916	

## College of Dentistry

### The Degree of Doctor of Dental Surgery upon

John Oliver Armistead .....	Newman
Lloyd Crockett Austin .....	Fresno
Oscar Bailey .....	San Diego
William Gordon Barnum .....	Oakland
Eddy Tallman Boyd .....	Napa
Charles Dustan Bradley .....	Spreckels
John Lockhart Campbell .....	Pacific Grove
Ralph Perry Chessall .....	Ukiah
Ernest Fleming Colvin .....	New Pine Creek, Oregon
Carl Nichols Dorman .....	Sacramento
Gerald Edwin Doty .....	Courtland
Marguerite Fischer .....	San Francisco
Renwick William Gealey .....	Oakland
Maurice Glazer .....	Escanaba, Michigan
Fred Bolton Godbolt .....	Red Bluff
Charles Dudley Gwinn .....	San Francisco
Tokutaro Hayashi .....	Sacramento
Avery Scott Hills .....	Sacramento
Thomas Edgar Hughes .....	Alameda
Jerome John Jansen .....	Roseville
Charles Eugene Johnson .....	Hollister
Howard Milne Johnston .....	Watsonville
Harry Calvin Lind .....	Berkeley
Charles Schiller Lipp .....	Point Richmond
Nestor Maximilian Lonn .....	Gothenburg, Sweden
Walter Hazelwood Lowell .....	Oakland
Adrian Lewis Morin .....	San Francisco
Noble Allen Powell .....	Stockton

Lester Bevard Rantz .....	Lakeport
Leo William Schuchard .....	Medford, Oregon
Ernest Martin Setzer .....	Lodi
Percy Ansley Steeves .....	San Jose
Frank Olcese Stoakes .....	San Leandro
Clarence Alden Stock .....	Virginia City, Nevada
Francis Kaaha Sylva .....	Honolulu, Hawaii
Toshi Tanaka .....	San Francisco
Homer Clinton Tollefson .....	Tacoma, Washington
John Wakefield .....	Ione
Dorrace Glenn Wallace .....	Los Gatos

### Hastings College of the Law

#### The Degree of Bachelor of Laws upon

John King Baillie .....	Berkeley
Adolph William Boyken .....	San Francisco
Charles Amos Cogswell .....	Berkeley
Harry Miller Creech .....	Oakland
Lancelot Charles Deady .....	Carson City, Nevada
Daniel W Hone .....	San Francisco
Thomas Joseph Horan .....	Vallejo

A.B. (St. Mary's College) 1913.

Joseph Henry Huberty .....	San Francisco
Martin C. Levin .....	San Francisco
Nathan Bolt McVay .....	Crescent City
William Glenn Marvin .....	San Francisco

A.B. 1914.

Thomas Churchill Nelson .....	Oakland
Willis Frederick Ostrander .....	Berkeley
Samuel Augustus Pleasants .....	Berkeley

B.L. 1915.

John Joseph Taaffe .....	San Francisco
Robert Merrill Tapscott .....	Yreka

### College of Agriculture

#### The Degree of Bachelor of Science upon

John Willis Adriance .....	Napa
Robert James Archibald .....	Wheeling, West Virginia
Richard Bartholomew .....	Denver, Colorado

Charles Robert Bell .....	Kinsley, Kansas
Leland Morrison Bell .....	Sacramento
Owen Robertson Blois .....	Dinuba
Clifford Arthur Bly .....	Los Angeles
*Leslie Hollis Brigham .....	Los Angeles
Warner Sabin Chadbourne .....	Suisun
Howard Francis Chappell .....	Los Baños
William Thomas Clow .....	Berkeley
John Michael Coffeen .....	Pasadena
Frederick Carrington Corey .....	La Jolla
Chester Rudolph Francis Cramer .....	San Francisco
*Helen Ladislaus Czarnecki .....	Oakland
Sidney Harold Davidson .....	Los Angeles
*Homer Bryan Davis .....	Berkeley
William August Degen .....	Alameda
Harold Putnam Detwiler .....	El Paso, Texas
Neil Francis Dougherty .....	Los Angeles
John Manderson Evans .....	Woodland
Depue Falck .....	Ogden, Utah
Ray Wall Fisher .....	Oakland
Arthur Herbert Folger .....	Mill Valley
Hugh Gallaher .....	Santa Barbara
A.B. (Harvard University) 1915.	
Benjamin Willey Gally .....	Nordhoff
Edwin Lowell Garthwaite .....	Oakland
William Allan Gee .....	Oakland
Ronald Dollzell Gibbs .....	Pasadena
Gillette Eddy Gordon .....	Riverside
William Alexander Graham .....	Alhambra
Loren S Hadley .....	Modesto
Ansel Franklin Hall .....	Oakland
Joseph Bell Hammon .....	San Francisco
Kessler Gilbert Hammond .....	Fresno
Hubert Edward Harding .....	Brunswick, Victoria, Australia
Paul James Hartley .....	San Diego
Laurance Emerson Haseltine .....	Berkeley
Harold Lush Herdeg .....	Riverside
Emerson Brown Herrick .....	San Francisco
Melville Harold Herspring .....	San Francisco
Verne W Hoffman .....	Corona
*Abner W Holland .....	Berkeley
*Howard Alexander Houston .....	Chico
*Marion Wright Hubbard .....	San Fernando

Masao Itano .....	Okayama-ken, Japan
Ward Charles Jensen .....	Oakland
Ethelbert Johnson .....	Berkeley
Louis William Jongeneel .....	Pittsburg
Arthur Henry Kemp .....	Chico
George Martin Koopman .....	Hayward
*G William Kretsinger .....	Berkeley
Perry Eugene Lantz .....	Sunnyside, Washington
Eugene Thomas Laugenour .....	Woodland
John Watkin Lawton .....	Guaymas, Sonora, Mexico
Hans Lemcke .....	Alameda
Norman Morais Lyon .....	Cincinnati, Ohio
Ernest Grigg Maas .....	Smith River
Roy Drummond McCallum .....	Richmond
Millard Earl McCollam .....	Berkeley
William Alfred McCutchan .....	Healdsburg
Clifford McElrath .....	Oakland
Julian Aeneas McPhee .....	San Francisco
Robert Charles Maris .....	Smith River
James Alexander Miller .....	Piedmont
James McVicar Mills, Jr. ....	Riverside
*Garabed Hagop Najarian .....	Fowler
Adolph Newberg Nathan .....	San Rafael
Arthur Emil Nelson .....	Denair
*Nicholas Demetriu Nitsos .....	Corvallis, Oregon
Warren Dexter Norton .....	Berkeley
Webster Locke Parker .....	Eureka
Alfred Braley Parsons .....	Hayward
Donald DeWitt Penny .....	Los Gatos
Oscar Wesley Phillips .....	Berkeley
John Charalampus Polos .....	Boston, Massachusetts
Robert Bruce Price .....	El Paso, Texas
*Khalula Lea Reid .....	San Jose
Fred H Reynolds .....	Los Angeles
Harry Sargent .....	Riverside
Leroy Bassett Sharp .....	Pacific Grove
*John Armstrong Sinclair .....	Eureka
*Emerson Upton Slyfield .....	Los Angeles
Milton Alexander Soderberg .....	Kerman
*Frank McCray Spurrier .....	Paso Robles
Raub Merrill Stafford .....	Marysville
Raymond Earl Storie .....	Holtville
Charles Edward Sullivan .....	San Bernardino

Eladio Susaeta Ochoa de Echagüen .....	Santiago de Chile
Achilles Alfred Tavernetti .....	Salinas
Morton Thacher .....	El Cajon
Frank Gile Tiffany .....	Hollister
William John Tocher .....	Oakland
Elwood Ellsworth Trask .....	Los Angeles
*Louis Roy Turner .....	Berkeley
Ralph Mervyn Walker .....	Selma
Roy Norton Waters .....	San Francisco
*Harry Milton Watkins .....	Oakland
Lemoine Elbie Williams .....	Berkeley
Frank Wood .....	Tulare
Milo Nelson Wood .....	Stevens Point, Wisconsin
Curtis Lewin Woodruff .....	Smith River
Harold Evans Woodworth .....	Berkeley
Carol Willard Wright .....	Eureka

### College of Chemistry

#### The Degree of Bachelor of Science upon

Clarence Walter Beebe .....	Berkeley
Robert Nelson Donaldson .....	Berkeley
Angier Hobbs Foster .....	El Paso, Texas
William Henry Hampton .....	Live Oak
Jack Kaufman .....	Los Angeles
Paul Gerhard Ledig .....	Alta Loma
Ross McCollum .....	Los Angeles
David Robert Merrill .....	Berkeley
Arthur William Mohr .....	San Francisco
Charles Elroy Rhein .....	Oakland

### College of Civil Engineering

#### The Degree of Bachelor of Science upon

Garabed Stevens Baboyan .....	Berkeley
Roy Merrill Barnes .....	San Jose
Edwin Earle Blackie .....	Lincoln
Bert Allison Bone .....	San Diego
Bennett Hart Bowley .....	San Francisco



Harold Chester Carniglia .....	San Francisco
*Roscoe Arnold Cattell .....	Pasadena
*Walter Marion Coffey .....	Santa Barbara
Edward Pearne Congdon .....	Berkeley
Harry Beaumont Corlett .....	Napa
*Arthur Cecil Dunlop .....	Placerville
Austin Robert Eimer .....	Alameda
Lester Albert Fowler .....	Los Angeles
Bryant Hall .....	Fairbanks, Alaska
Reinhold Bernhard Hansen .....	San Francisco
Rodney William Henry .....	Napa
George Mitchell Hill .....	Los Angeles
Bruce Jameyson .....	La Junta, Colorado
*Harry Neville Jenks .....	Berkeley
Andrew Martin Jensen .....	Fresno
LeRoy Farnham Krusi .....	Alameda
Harley Latson .....	Whittier
Philip James Maas .....	San Francisco
Hayward Cooper McDonald .....	Berkeley
Floyd Theall McKune .....	Long Beach
Benjamin Franklin Masten .....	Oakland
Karl Vincent Morin .....	Los Angeles
William Humphreys Overshiner .....	Santa Ana
Frederick Stryker Overton .....	Alhambra
Edward Alexander Reinke .....	San Diego
Walter Ruppel .....	San Francisco
Robert Laurence Ryan .....	Santa Barbara
Manley William Sahlberg .....	Turlock
Victor Richard Sandner .....	Berkeley
Augustus Victor Saph .....	Berkeley
Al Henry Siemer .....	San Francisco
John James Vandenburg .....	Los Angeles
Gifford Gustav Wills .....	San Francisco

### College of Commerce

#### The Degree of Bachelor of Science upon

*George Howard Albertson .....	Denver, Colorado
*Walter Victor Atkinson .....	San Jose
Miriam Neil Haynes Babbitt .....	Berkeley
Baptiste Barthe .....	Livermore

*Frederick Herman Baruch .....	Los Angeles
*Leo Winfield Bender .....	Oakland
Charles Thomas Brooks .....	Oakland
Ralph Mercer Brown .....	San Francisco
Fisher Aurelius Buckingham .....	San Francisco
Barrett Nelson Coates .....	Sacramento
Vaughn Merwin Cobb .....	Los Angeles
Raymond Williams Crook .....	San Francisco
Jnanendra Krishna Deb .....	Calcutta, India
Charles Stanley Dimm .....	Point Richmond
Cecil Amos Ditty .....	Pomona
William Crumbaugh Douglas .....	Red Bluff
Neal Dow .....	Berkeley
Frank Thomas Elliott .....	Visalia
*Dwight Edward Eveleth .....	Berkeley
Lloyd William Goepfert .....	San Francisco
John Waino Granberg .....	Astoria, Oregon
Edward Rowe Gundelfinger .....	Fresno
Rexford Luther Hall .....	El Cajon
Erwin Marks Hirschfelder .....	San Francisco
William McCalla Irvine .....	Salinas
*James Gordon Klemgard .....	Pullman, Washington
Lawrence Frederick Knauer .....	Sacramento
Earl John Knudson .....	Brigham City, Utah
Jack Elton Learner .....	Oakland
Frederick Philip Levé .....	Fruitvale
James Kenneth Lothead .....	Fresno
Frank Dole McCulloch .....	Upland
Claude Ezra Monlux .....	Butte City
Ferris Sylvanus Moulton .....	Riverside
Charles Ernest Murphey .....	Los Angeles
Hilmer Oehlmann .....	Alameda
*Ralph Emanuel Oppenheimer .....	San Jose
*Nalini Mohan Pal .....	Calcutta, India
Prosper Reiter, Jr. ....	San Francisco
Nicholas James Scorsur, Jr. ....	San Jose
Robert Leland Smirle .....	San Francisco
Floyd Wayne Stewart .....	San Jose
George Francis Taylor .....	Nevada City
Chester Benson Tonkin .....	San Jose
Homer Harold Tooley .....	New Hampton, Iowa
Henry Reginald Weber .....	Berkeley

Claudius Nelson White .....	San Jose
William Hardcastle Wright .....	Berkeley
Francis Vaclav Zlatnik .....	Jarosov, Moravia, Austria

## College of Mechanics

### The Degree of Bachelor of Science upon

Howard Stewart Bean .....	Campbell
Frank Couver Bell .....	Oakland
Russell Dolman Berst .....	Portland, Oregon
Llewellyn Michael Kraus Boelter .....	Berkeley
Oliver H. Cory .....	Etna Mills
Cyril Alfred Davis .....	San Francisco
Carl Torrey Dixon .....	Point Loma
Claude William Drake .....	Alhambra
James Shields Draper .....	Colorado Springs, Colorado
Stephen E Dunn .....	Modesto
H Syril Dusenbery .....	San Francisco
Robert Dean Easton .....	Sacramento
George Adair Fleming .....	San Diego
Evans Ronald Foster .....	East Auburn
Guy Harrison Gale .....	Santa Ana
Heman Charles Greenwood .....	Berkeley
Byron Floyd Grimmer .....	Fresno
Henry Raymond Hogaboom .....	San Diego
Kenneth Ward Houston .....	Tempe, Arizona
Matthew Hall Jones .....	San Luis Obispo
Cyril Philip Kenville .....	Oakland
Herluf Albert Knudsen .....	Oakland
Ralph Waldo Lingle .....	Fresno
William Leslie McCabe .....	Berkeley
Rollin Eugene Meyer .....	Oakland
Glenn Kendall Morrison .....	Ellendale, North Dakota
Alexander H Munro .....	Blandburg, Pennsylvania
Goroichi Noda .....	Kumamoto, Japan
William Simon Peterson .....	Anaconda, Montana
William Kenneth Potts .....	Nordhoff
*William Jennings Rady .....	Santa Cruz
Samson Heller Rosenblatt .....	San Francisco
*Otto Edward Sandman .....	Stockton

Hong Kim Seung .....	Oakland
Robert Judson Stull .....	San Jose
Tai Louis Tada .....	Berkeley
Clarke Elmer Wayland .....	Berkeley
*Willis Leslie Winter .....	San Francisco

### College of Mining

#### The Degree of Bachelor of Science upon

Henry Bruce Barkis, Jr. ....	Lodi
George Wesley Coffey .....	Oakland
Wright Ethelbert D'Evelyn .....	Alameda
*George Burger Dillingham .....	Yorkville
*George Shannan Gray .....	Portland, Oregon
*Odean Tobias Hallum .....	Seattle, Washington
Andrew McDonald Hazzard .....	Whittier
Henry Theodore Helgesson .....	Portland, Oregon
*Maurice Herbert Knowles .....	Oakland
Adolph Claus Kroeger .....	Oakland
Arthur Raymond May .....	Santa Maria
Samuel James Ogilvie .....	Berkeley
Curt Nicolaus Schuette .....	San Francisco
William Wallace Sprague .....	Menlo Park
Roy Starbird .....	San Francisco
Otis Mitchell Tupper, Jr. ....	Berkeley
Edward Hollister Wissner .....	Washington, D. C.

### College of Letters and Science

#### The Degree of Bachelor of Arts upon

Camille Leonie Abbay .....	Berkeley
*Ruth Lovilla Ackerman .....	Los Angeles
Samuel Adair .....	Los Angeles
*Harry Vaughn Adams .....	Berkeley
Mildred Adams .....	Berkeley
Pauline Adams .....	Oakland
Winola Adams .....	Los Angeles
Frances Norene Ahl .....	Santa Rosa
*Arthur Scott Aiton .....	Alameda
Elsa Albert .....	San Francisco

Mary Elizabeth Allen .....	Pasadena
Rosabelle Ames .....	Berkeley
Stella Clare Andres .....	Los Angeles
Edmund Ward Andrews .....	Modesto
Elwyn Abner Arnold .....	Oakland
Beatrice Averill .....	Berkeley
*Fred Nelson Aylward .....	Fort Bragg
Helen Trexler Baer .....	Berkeley
Crystal Estella Bailey .....	Dewitt
Myrtle Theresa Bailey .....	San Pablo
*Ruth Bailey .....	Custer, South Dakota
*Florence Margaret Baker .....	Salinas
*George Washington Baker, Jr. ....	Piedmont
Mary Lois Baker .....	South Pasadena
Frederick Herbert Ballou .....	Tempe, Arizona
*Gertrude Van Dyke Bangs .....	Oakland
Katharine Van Dyke Bangs .....	Oakland
Flossie Banks .....	Ukiah
Jesse Wright Barnes .....	Mobile, Alabama
Marie Richmond Barney .....	Anderson
Anna Frances Barrows .....	Berkeley
Edna Filkin Bartholomew .....	Riverside
Freda Cadell Bayley .....	Oakland
Angenetta Idell Beasley .....	Cloverdale
*Earl Wilber Beatty .....	Chico
*Loui Charles Beauman .....	Berkeley
*George Henry Becker .....	San Francisco
*Nina Cecile Beers .....	Winchester, Oklahoma
Lois Brulyn Benton .....	Berkeley
Leila Baldwin Berry .....	Berkeley
Elise Carolyn Bertheau .....	San Francisco
Ina Weatherwax Bertholf .....	Berkeley
Charles Coleman Berwick .....	Berkeley
Carlotta Anna Beshlich .....	Oakland
William Campbell Binkley .....	Santa Ana
Irene Winifred Bixby .....	Los Angeles
*Edith Virginia Black .....	Fellows
Harold Alfred Black .....	San Francisco
Nellie Estella Black .....	Santa Maria
Robert Blake .....	Berkeley
Edward Oscar Blodgett .....	Berkeley
Beatrice Louise Bonner .....	Fresno
*Mabel Therese Bonney .....	Berkeley

Raymond Karnaghan Bontz .....	Sacramento
Bradford Walsworth Bosley .....	Berkeley
Harriett Louise Bowman .....	Spokane, Washington
Rosamond Jordan Bradbury .....	Santa Barbara
Mabel Bradway .....	Los Angeles
Simone Marthe Brangier .....	Agnew
*Helen Lucille Brayton .....	Long Beach
Samuel Earl Breck .....	Oakland
Edward Charles Nowers Brett .....	Los Angeles
Eugene Arthur Breyman .....	San Francisco
Barbara Bridge .....	Mill Valley
Samuel Brodie .....	Berkeley
Edward Duerdin Bronson, Jr. ....	Oakland
Edna Louisa Brown .....	Berkeley
Frances Leslie Brown .....	Petaluma
Ida Louise Brown .....	Oakland
John Herbert Brown .....	Los Angeles
*Nancy Irena Brown .....	Riverside
*Robert Earl Brownlee .....	Silver City, New Mexico
*Ruth Brownlie .....	Vallejo
Zdenka Buben .....	Alameda
Walter George Buell .....	Solvang
Barbara Burke .....	Berkeley
Sherman Kennedy Burke .....	Berkeley
Lula May Burt .....	Princeton
David Frazer Bush .....	Martinez
Leila Ella Butler .....	Berkeley
Mary Dorcas Butman .....	Whittier
*Emerson McMillin Butterworth .....	Santa Barbara
Lewis Ryan Byington .....	Healdsburg
*Katharine Cahoon .....	Roswell, New Mexico
Helen Douglas Campbell .....	Berkeley
Ruby Catherine Campbell .....	Orange
James Somers Candee .....	El Cajon
Charles Josef Carey .....	Sacramento
Marjorie Susan Carlton .....	Berkeley
*Irene Carmichael .....	Livingston
Zelma Alice Carroll .....	Elko, Nevada
Anna Breckinridge Carter .....	Riverside
*George Brown Caster .....	Leon, Iowa
Priscilla Anastasia Cavagnaro .....	Oakland
Pauline Chamberlain .....	Oakland
*Sue Chamberlin .....	San Francisco

Rose Bullard Chew .....	Oakland
Marmion Hugo Childress .....	Berkeley
Mary Margaret Chilson .....	Pueblo, Colorado
Sarah Mu Jin Ching .....	Berkeley
Marian Elizabeth Christensen .....	San Rafael
*Katherine Clancy .....	Pomona
Arthur Leo Clark .....	Fresno
Carroll Clark .....	Oakland
Robert Campbell Clark .....	Berkeley
*Warner Clark .....	New Pine Creek, Oregon
Camilla Dorothea Clarke .....	Pasadena
Roberta Carrick Clarke .....	Berkeley
Helen Wheeler Clowes .....	Stockton
Stanton Arthur Coblentz .....	Stockton
Zach Benjamin Coblentz .....	Santa Maria
George Washington Cohen .....	Los Angeles
Milton Harold Cohn .....	San Francisco
Henry Charles Collins .....	Berkeley
*Clara Avery Colton .....	Berkeley
Madison Henry Compton .....	Los Angeles
Alvah Putnam Roscoe Conklin .....	Berkeley
*Mabel Anna Connell .....	Livermore
*Leona Cope .....	Red Bluff
*William Darrell Coughlan .....	Nevada City
Mildred Pearl Crane .....	Sacramento
Alice Beulah Cranston .....	Santa Ana
*Helen Crawford .....	Topeka, Kansas
*Dorothy Crofts .....	San Rafael
Dennis James Hyacinth Crowley .....	Port Costa
Winnifred Cummings .....	Salt Lake City, Utah
Eloise Bostwick Cushing .....	Oakland
Thomas Wilford Dahlquist .....	Salt Lake City, Utah
*Robert Ingersoll Daley .....	Gilroy
Cleo Theodora Damianakes .....	Oakland
Doris Alden Daniels .....	Monrovia
Verna May Darrow .....	Oakland
Alice Marie Kingman Davis .....	Chelan, Washington
Mary Faye Caulkins Davis .....	Ceres
Tillie de Bernardi .....	Santa Rosa
*Lura Marie De Camp .....	Los Angeles
Granville Sinclair Delamere .....	Ferndale
*Chester Arthur De Lancey .....	Oakland

*Jean Marjorie Deming .....	East Auburn
Margarette Adah Dermont .....	Williams, Arizona
Pauline Dillman .....	Sacramento
Sophia Dinsdale .....	Woodland
William Dinsmore .....	Marysville
*Mary Law Dixon .....	Newman
*Harrison Allen Dobbs .....	Berkeley
Ellen Augusta Erika Dominique .....	Santa Barbara
Louise Agnes Doran .....	Healdsburg
*Randall Mills Dorton .....	Kansas City, Missouri
Robert Earle Dorton .....	Kansas City, Missouri
Elizabeth Ellen Douglas .....	Turlock
Marion Clarice Downey .....	Modesto
Octavia Downie .....	Berkeley
Albert Laurence Dunn .....	Long Beach
Maud Carol Eberts .....	Oakland
Miriam Eckart .....	Marysville
Cecil Eli Edgar .....	Sanger
*Logan Combs Edwards .....	Visalia
Charles R Eib .....	Lodi
Edwin Madison Elam, Jr. ....	Berkeley
Alice Bunnell Elliot .....	Oakland
Elizabeth Francis Elliott .....	Berkeley
Daniel Eric Ellis .....	Los Angeles
Dorothy Epping .....	Hood River, Oregon
Frederick Monroe Essig .....	Shively
Waldemar Adolph Falck .....	Los Angeles
*Henry Oscar Falk .....	La Jolla
Donald Guy Farneman .....	South Bend, Indiana
Olivetta Faulkner .....	Aberdeen, Washington
Elizabeth Van Everen Ferguson .....	Berkeley
*Myrtle Viola Fitschen .....	Berkeley
*Marion Eccelston Fitzhugh .....	San Francisco
Daniel Parsons Foster .....	Portland, Oregon
*John Macy Foy .....	Berkeley
Olga Winnifred Foyle .....	Oakland
Anna Rosalind Frank .....	Los Angeles
Sadie Christine Fredericks .....	Oakland
*James Towell Friesner .....	Los Angeles
Gertrude Frost .....	Hankow, China
Mary Louise Fundenberg .....	Pasadena
*Bessie Anastasia Furlong .....	Santa Cruz
Marguerite Furlong .....	Redondo Beach



Bertha Mabel Galloway .....	Berkeley
*Margaret Clarice Gallup .....	Santa Ana
*Robert Rosborough Gardiner .....	Oakland
Vivien Gardner .....	Hollywood
*Vivian Leora Garrett .....	Boise, Idaho
*Beatrice Young Gawne .....	Stockton
*Marguerite Geddes .....	Byron
Rudolph Leonard Gianelli .....	Stockton
Dolores Gibson .....	Santa Clara
Ruth Beatrice Gibson .....	Williams
Raynor Eugene Gimbal .....	Oakland
*Thelma Clare Gleeson .....	San Francisco
Anne Glover .....	Oakland
Ruth Emma Goodsell .....	Berkeley
Irene Mai Grady .....	Merced
*Robert Edward Graf, Jr. ....	Pomona
Fannie Etoile Granger .....	San Jose
Cletus Henry Graves .....	Pennington
*Waldron Ashley Gregory .....	Los Angeles
Alice Augusta Griffin .....	Lonoak
Robert Leroy Groves .....	Marysville
Erwin Gustav Gudde .....	Berkeley
Lena Guidery .....	Berkeley
Verna Lodema Hall .....	Nevada City
Harvey Leslie Hansen .....	San Francisco
*Edna May Harding .....	Santa Cruz
Arthur Cobb Hardy .....	Berkeley
Franklin Isadore Harris .....	San Francisco
Georgia Helen Harrison .....	Berkeley
Gregory Alexander Harrison .....	San Francisco
Mabel Ruth Harrison .....	Logansport, Indiana
Clifford Clyde Harter .....	Merrill, Oregon
*John Stephenson Hartley .....	Reedley
James Benton Harvey .....	Sacramento
Bertha Haskett .....	Fort Bragg
Harry Hopkins Haworth .....	Newberg, Oregon
B.S. (Pacific College) 1915.	
Margaret Calder Hayes .....	Aberdeen, Washington
Olive Genevieve Hayes .....	Oakland
*Lyman Dunlap Heacock .....	San Francisco
*Alice Margaret Heinz .....	Davenport, Iowa
Elise Henderson .....	Berkeley
Harold Lewis Herrick .....	Salt Lake City, Utah

Edward Hervey .....	Los Angeles
Ernestine Herz .....	Alameda
Vera Anne Hinch .....	Eureka
Carl George Hjelte .....	Oakland
Gladys Gray Hobron .....	Berkeley
*Irene Cynthia Hollenbeck .....	Lebec
Hazel Helen Hollingsworth .....	San Francisco
Aila Bernice Holm .....	Mendocino City
Dorothy Maria Hooper .....	Yreka
Helene Esther Hooper .....	Yreka
Lucile Hooper .....	Pasadena
Ruth Frances Horel .....	Arcata
Shirley Clements Horsley .....	Brigham City, Utah
Rose Horvitz .....	Richmond
George Henry Hotaling .....	San Francisco
*Earle Houghton .....	Upland
Euvelle Downen Howard .....	Lakeport
Arnold Watlington Howe .....	Goldfield, Nevada
James Milo Howson .....	Salt Lake City, Utah
*Elisabeth Hoyt .....	Oakland
Hubbard Spencer Hoyt .....	Pacific Grove
Mary Celestia Hoyt .....	Pacific Grove
Dorothea Harriet Huggins .....	Berkeley
Irene Hund .....	Ross
Faith Imogene Hunt .....	Cooston, Oregon
Gertrude Elizabeth Hunt .....	Berkeley
William Garrett Hunt .....	Oakland
Hugh Allen Hunter .....	Monrovia
Emily Harriet Huntington .....	San Francisco
*Thomas Waterman Huntington, Jr. ....	San Francisco
Irene Estelle Hurley .....	Oakland
Harold Anthony Hyde .....	Watsonville
George Shigeki Iki .....	Berkeley
Leslie Alphonse Isaacson .....	Marshfield, Oregon
*Einar William Jacobsen .....	Oakland
Evans Chick Jacobson .....	Onowa, Iowa
Harold Samuel Jacoby .....	Oakland
*John Thomas James .....	Berkeley
*Zola B Jarvis .....	San Francisco
Hamilton Moore Jeffers .....	Pasadena
Demetrio Eugene Jeffry .....	Healdsburg
*Anne Margaret Jenkins .....	Shelbyville, Tennessee
*Ruth Jenkins .....	Shelbyville, Tennessee

Martha Jensen .....	Arlington, Washington
Mildred Jessup .....	Berkeley
Helen Rankin Jeter .....	Eagle Rock
Hildegarde Johanna Johe .....	San Rafael
*Milton Vernon Johns .....	Pacific Grove
Ralph Leslie Johns .....	Lodi
Evelyn Goldie Johnson .....	Santa Rosa
Mason Allen Johnston .....	Yerington, Nevada
*Felix Jacob Jonas .....	Los Angeles
Leona Mills Jones .....	Visalia
Flournoy Albert Juch .....	Santa Ysabel
Hazel Ardella Katzenstein .....	Sacramento
Earle Frances Kaufman .....	Berkeley
Melville Kaufmann .....	San Francisco
Cora Floyd Keeler .....	Berkeley
Louise Egerton Keen .....	San Diego
M'Louise Keeney .....	Los Angeles
Elizabeth Erminie Keith .....	Riverside
Alda Belle Kelsey .....	Berkeley
*Edith Ellis Kennedy .....	Helena, Montana
Marie Irene Kessler .....	Oakland
Lucy Hope Kieldsen .....	Boise, Idaho
Grace Eleanor Kimble .....	Los Angeles
Esther Laurilla King .....	Hayward
Marguerite Kirk .....	Bozeman, Montana
*Frank Yoshimiche Kitsuda .....	Berkeley
Esther Kittredge .....	Berkeley
*Kunisada Kiyasu .....	Los Angeles
*Emma Anita Klein .....	San Francisco
Mary Louise Kleinecke .....	Berkeley
Charles Richardson Knox .....	Los Angeles
Kinuji Kobayashi .....	Hiogoken, Japan
LL.B. (Kansai University) 1918.	
*Louise Brewster Koehler .....	St. Helena
Isidore Benjamin Kornblum .....	Los Angeles
Gladys May Kreamer .....	San Francisco
Toyokichi Kurahashi .....	Riverside
Arthur Thornton La Prade .....	Winslow, Arizona
Ewald Axel Larson .....	Kingsburg
Anita Duncan Laton .....	Duncan Mills
Carl Lausen .....	Galveston, Texas
Morris Lavine .....	Los Angeles
Russel Van Arsdale Lee .....	Spanish Fork, Utah

Armistead C Leigh, Jr. ....	Los Angeles
Archer Lynn Lerch .....	Oakland
Ruth Corrinne Lesley .....	Berkeley
Louis Less .....	San Francisco
Edythe Lillie .....	Bishop
Chester Charles Lincoln .....	Calistoga
Hazel Fredericka Charlotte Lindh .....	Oakland
George Moore Lindsay .....	Berkeley
Elbert Wilson Lockwood .....	Los Angeles
Walter Robert Lockwood .....	Puente
Benjamin Boone Logan .....	Sacramento
Edith Harriet Logan .....	Los Angeles
*Grace Winnans Love .....	Berkeley
*Roy Irving Lovett .....	Paradise
Frances Caroline Lowell .....	Oakland
Kathryn Mildred Ludden .....	Glendale, Arizona
Genevieve Dalton Luff .....	Petaluma
Grace Jane Lynch .....	Stockton
Lois Valentine Lyon .....	San Francisco
Florence Mary Macaulay .....	Oakland
Anna Harding McCabe .....	Crawfordsville, Indiana
Coe Elizabeth McCabe .....	Berkeley
Francis Brown McCollom .....	San Francisco
*Elsie Catherine McCormick .....	Alameda
Lola Elizabeth McCormick .....	Modesto
*Hazel Joy McCurdy .....	Eureka
George Ervine McCutchen .....	Sacramento
Margaret Anne McDermed .....	Oakland
Doris Elizabeth McEntyre .....	Berkeley
Elsie Jeannette McFarland .....	Pasadena
Ivander MacIver .....	El Paso, Texas
Hugh Fraser MacKenzie .....	San Francisco
Nora McKenzie .....	Concord
Will Carleton McKern .....	Fullerton
Richard Ashe McLaren .....	San Francisco
Mathilde McLelland .....	East Point, Louisiana
Alberta McNeely .....	Sacramento
John Ignatius McVey .....	San Diego
Marshall Pierce Madison .....	San Rafael
Margaret Marchant .....	Ione
Algeline May Marlow .....	San Diego
Paul Sylvester Marrin .....	Twin Falls, Idaho
Adrienne Marsat .....	Los Angeles

*Wallace Stelle Martin .....	Haddonfield, New Jersey
Edwin Marshall Maslin .....	Watsonville
Calla Mathison .....	Los Angeles
Sotaro Matsushita .....	Los Angeles
George Lawrence Maxwell, Jr. ....	Woodland
Maud Mayenbaum .....	Oakland
Robert Stoney Mayoock .....	Gilroy
Welburn Franklin Mayoock .....	Gilroy
Maude Marion Meagher .....	San Francisco
Hazel Kirke Meddaugh .....	Watsonville
Clara Agnes Meeks .....	Petaluma
*Caroline Elisabeth Melody .....	Cloverdale
Leonard Joseph Meltzer .....	Piedmont
David Robert Merrill .....	Berkeley
Ruth Earl Merrill .....	Los Angeles
Marguerite Merritt .....	Oakland
Margaret Irene Mersereau .....	Oakland
*Laurence Mickel .....	Madera
Dorothy I Miles .....	San Francisco
Carey Dunlap Miller .....	Boise, Idaho
*Hiram Edgar Miller .....	Elk Grove
Vera Douglas Miller .....	Oakland
*Reginald Louis Mills .....	Placerville
*Shigeru Mitoma .....	Oakland
*Charles Solomon Mitrani .....	Los Angeles
*Kenneth Monteagle .....	San Francisco
Margaret Mary Montgomery .....	San Francisco
Margaret Elizabeth Moore .....	Los Angeles
Ethel Anna Moroney .....	San Francisco
Armena Louise Morse .....	Berkeley
Beatrice Jessie Morsman .....	Oakland
Donna Moses .....	Los Angeles
Genevieve Glasier Mott .....	Petaluma
*Louis Henry Mueller .....	San Francisco
*Alice Cecelia Mulligan .....	San Francisco
Carlos Samson Mundt .....	Alameda
*Hazel Geraldine Murphy .....	San Diego
Lucille Alice Murphy .....	Los Angeles
*Caroline Stoutenborough Neill .....	Bishop
*Clarence Eugene Nelson .....	Victor, Colorado
Mabel Nelson .....	Vacaville
John Curtis Newton .....	Santa Barbara
Ruth Pauline Nichols .....	San Pedro

Alice Carlena Noble .....	Berkeley
Ermyn Norton .....	Berkeley
Frank Macdonald Ogden .....	Oakland
Rosalinda Amelia Olcese .....	Hornitos
Ethel Marion Orr .....	Yuba City
Mildred Orr .....	Berkeley
Joseph Nash Owen .....	Carlsbad, New Mexico
*Ian Ozolin .....	Jacobstad, Baltic Provinces, Russia
Violet Agnes Palmer .....	Tuolumne
Roscoe Abraham Parcel .....	Berkeley
Leon Burson Parker .....	San Francisco
Warren Harvey Parker .....	Phoenix, Arizona
Anita Belle Patterson .....	Bishop
Perry Jasper Patton .....	Gonzales
*Leander Leo Pavid .....	Berkeley
Louis Hubbard Penney .....	Colville, Washington
Myrtle Evelyn Petch .....	Berkeley
John Southall Rozelle Pfund .....	San Francisco
Rose Maria Pfund .....	Oakland
Emmett Phillips, Jr. ....	Sacramento
Melville F Phillips .....	San Francisco
Warren Ludwig Lee Pierson .....	San Pedro
Irene Pilat .....	Santa Barbara
Leola May Pinger .....	Petaluma
Narcisa Pioda .....	Salinas
Bertha Piske .....	San Francisco
Elise Posey .....	Oakland
Eugene Mitchell Prince .....	Tuolumne
Harriet Emeline Proctor .....	Oakland
Katharine Frances Quinn .....	Los Angeles
Bert Franklin Rabinowitz .....	San Francisco
Wilbur Raisner .....	Corning
Vangala Siva Ram .....	Bombay, India
Mattie Lorene Ramelli .....	Ventura
Bess M Ranton .....	Pullman, Washington
Genevieve Harriet Read .....	Oakland
*Ralph Lemuel Rehorn .....	Fresno
Milton Joseph Reinhart .....	Elko, Nevada
Ruth Marie Repath .....	Los Angeles
Gladys Isabel Reston .....	San Francisco
Florence May Rhodehamel .....	Oakland
Iola Gladys Riess .....	San Francisco
Charles Ferdinand Beach Roeth .....	Oakland

Emery Herman Rogers .....	Santa Monica
Romayne Raymond Rohlfing .....	Placerville
*Dan Edwin Root .....	Redding
Lewis Samuel Rosenbaum .....	San Francisco
Ralph Samuel Rosenbaum .....	San Francisco
Helen Emma Rosenberg .....	Oakland
Albert Frederick Ross, Jr. ....	Bedding
*Mary Letitia Ross .....	Brunswick, Georgia
William Wheeler Rucker .....	Oakland
Elizabeth Mary Ruggles .....	San Francisco
George Oliver Sagen .....	Princeton
Ethel Said .....	Bakersfield
Erminie Ursula Sala .....	Stockton
Adèle Louise Salsbury .....	San Francisco
*Frank Laurence Sawyer .....	San Francisco
Ray John Scheline .....	Kingsburg
Karl Howard Schilling .....	Berkeley
Alice Eleanor Schlots .....	Elmwood, Illinois
*Anna Maria Magdalena Schnelle .....	Berkeley
Marguerite Julia Scholl .....	Los Angeles
*Kenneth Evan Schwinn .....	Redlands
*Sibyl Gertrude Scott .....	Porterville
Kenyon Judson Scudder .....	Seattle, Washington
*Nellie Maude Secara .....	Madera
David Segel .....	Berkeley
*Avis Justina Servaty .....	Fresno
Harry Boyd Seymour .....	Sacramento
John Laurence Seymour .....	Santa Monica
Ruth Seymour .....	Mill Valley
Dorothy Ashton Shade .....	Pasadena
*Pearl Eugenia Shannon .....	Monson
Jay Randolph Sharpstein .....	Alameda
David Stoddart Shattuck .....	Los Angeles
*Roe Emerson Shaub .....	Tacoma, Washington
Edward Byer Shaw .....	Oakland
*Katharine Baker Shea .....	Los Angeles
Helen Eliza Sheedy .....	Bakersfield
Hazel Julia Shepherd .....	Stockton
*Annie Hardin Sherman .....	Coronado
Ruth Sherman .....	Berkeley
Joseph Shwadelson .....	Chattanooga, Tennessee
Richard Dean Sias .....	Corona
Roy Dill Sifford .....	Susanville

Edna Hazel Simmons .....	Oakland
*Albert Carnahan Simonds .....	Los Angeles
Annie Belle Sitton .....	San Leandro
Thomas William Slaven .....	Sacramento
Mary Ruth Smart .....	Seattle, Washington
Amrah Dinwiddie Smith .....	Berkeley
Bernice Dunlap Smith .....	Maunawai, Oahu, T. H.
Frank Carol Smith .....	Santa Barbara
*Harry Pratt Smith .....	Kansas City, Kansas
Joseph Thomas Smith .....	Livermore
Lillian Du Bois Smith .....	Oakland
*Olive Van Rensselaer Smith .....	Santa Rosa, New Mexico
*Ruth Almede Smith .....	Berkeley
Robert Lacy Smyth .....	Berkeley
Myrtle May Snider .....	Denair
Elizabeth Mabelle Snyder .....	Berkeley
Antoinette Soo-Hoo .....	Berkeley
Eldridge Ted Spencer .....	Berkeley
*Marguerite Louise Spiers .....	San Jose
Angie Tibbetts Stacey .....	San Francisco
*Starr Walker Stanyan .....	West Medford, Massachusetts
Edith Georgie Stark .....	Martinez
Neal Staunton .....	Los Angeles
Marian Shaw Stayner .....	Salt Lake City, Utah
Sarah Elizabeth Steele .....	Metzger, Oregon
Leona Steinmann .....	Berkeley
Gordon Fitzhugh Stephens .....	Hollywood
Waite Henry Stephenson .....	Oakland
Philip Cushing Stetson .....	San Rafael
Olive Lee Stevenson .....	Riverside
Belle Ritchie Stewart .....	Berkeley
*Edmund Hathaway Stillman .....	Berkeley
Mary Edna Stonebrook .....	South Pasadena
Evelyn Rowena Stonesifer .....	Berkeley
Edna Williams Strong .....	Oakland
Calmur John Struble .....	Heyburn, Idaho
*Ruth Gray Stubbs .....	Reno, Nevada
Ethel Marie Styles .....	Willmar, Minnesota
Homer Ignatius Gustave Sussdorff .....	San Francisco
Dorothy May Swank .....	Colusa
*Ruth Robbins Swasey .....	Berkeley
Frances Comba Sweezy .....	Oakland
Helen Jett Swortfiguer .....	Oakland



*Edna May Taber .....	Oakland
*Erma Denny Taggart .....	Los Angeles
*Helen Williams Talbert .....	Berkeley
Joseph Raegen Talbot .....	Santa Rosa
Katharine Isabel Tapscott .....	Yreka
Margaret Powers Taylor .....	Salt Lake City, Utah
*Mildred Frances Thomas .....	San Francisco
Claude Verner Thompson .....	Orland
Ruby Cornelia Thomson .....	San Jacinto
*Ruth Elizabeth Thornburgh .....	Santa Maria
James Herbert Tietzen .....	Berkeley
Avery Tompkins .....	Berkeley
Hope Edith Townsend .....	Oakland
Margaret Adeline Toye .....	Alameda
Ruth Allison Turner .....	San Francisco
Laura Harriet Ulrich .....	St. Peter, Minnesota
Leslie Underhill .....	San Francisco
Florence Emma Underwood .....	Berkeley
Douglas Van Dyke .....	Los Angeles
*George McGill Vogt .....	Toronto, Canada
Sylvia Maria Vollmer .....	Las Vegas, New Mexico
*John Paul von Grueningen .....	Altadena
*Ernest Edward Vosper .....	San Francisco
Dean Quigley Waddell .....	Los Angeles
*Leo Ainslie Wadsworth .....	Sutter
*Nada B Wagner .....	San Diego
Laura Amy Walden .....	Alameda
Estella Evangeline Walker .....	Oakland
Jean Walker .....	Visalia
*Owen Walker .....	Hollywood
*Ethel Carolyn Wall .....	Berkeley
Rosselet Wallace .....	Berkeley
Ethel Pearl Walther .....	Elk Grove
Imra Margaret Wann .....	Berkeley
*Helen Mary Ware .....	Redwood City
Arthur Lafayette Warren .....	Berkeley
*Fay Esma Watson .....	Vacaville
Martha Augusta Weber .....	Berkeley
Dorothea Webster .....	San Diego
Winifred M Weeks .....	Hot Springs, Arkansas
Frances Maude Welch .....	Berkeley
Lucile Welch .....	Woodland
Ralph Eric West .....	Martinez

Dorothy Elizabeth Wetmore .....	Berkeley
Anne Radford Wharton .....	Los Angeles
Mary Ruth Wheeler .....	Oceano
Norma Wheeler .....	Los Angeles
George Leonard White .....	Berkeley
Hugh Vernon White .....	Sacramento
Gertrude Nancy Whitton .....	Berkeley
*John Boardman Whitton .....	Oakland
Frank Howard Wilcox .....	Ontario
*Donald Clark Williams .....	Sacramento
Lawrence Franklin Williams .....	Crescent City
Flora Margaret Wilson .....	Santa Cruz
Margaret Celia Wilson .....	Twin Falls, Idaho
*Stanley Vernon Wilson .....	Corning
Thornton Wilson .....	Nordhoff
Warren Scott Wilson .....	San Francisco
Elizabeth Louise Witter .....	Berkeley
Esther Louise Witter .....	Oakland
Willis Guy Witter .....	Berkeley
Bing Chin Wong .....	Sacramento
Ruth Atwater Wood .....	Hilo, T. H.
Hilda Benicia Woodin .....	San Francisco
*Edith Gwendolyn Wooldridge .....	Richmond
Joe Yoshida .....	Oakland
Gertrude Lucy Young .....	Berkeley
*Merle Elizabeth Young .....	Newhall
William Jerome Young .....	San Francisco
*Max Yulich .....	Northwestern
Florence Zander .....	Berkeley

## The Degree of Master of Science upon

- Digitized by Google

- Satoaki Ozaki ..... Viticulture and Enology ..... Berkeley  
 B.S. 1916.  
*Thesis:* Enzymes in fruits.
- \*Max Clemens Richter ..... Entomology ..... San Francisco  
 B.S. 1910.  
*Thesis:* Beekeeping in California.
- Lloyd Nash Robinson ..... Electrical Engineering ..... Berkeley  
 B.E. (Union College) 1911.  
*Thesis:* Even harmonic phenomena accompanying transmission with some types of star transformer connections.
- \*Aaron David Shapiro ..... Rural Institutions ..... Berkeley  
 B.S. 1915.  
*Thesis:* Jewish colonization in Palestine.
- Yu Hwa Twan ..... Chemistry ..... Nanchang, Kiangsi, China  
 B.S. 1916.  
*Thesis:* The overvoltage of hydrogen.
- \*Charles Caverno Way ..... Citriculture ..... Chico  
 B.S. 1918.  
*Thesis:* A citrus survey of Northern California.
- Charles Henry West ..... Irrigation ..... Ogden, Utah  
 B.S. (Agricultural College of Utah) 1914  
*Thesis:* General problems in the mathematical theory of investment arising in irrigation projects

### The Degree of Master of Arts upon

- Constance B Abbott ..... Economics ..... Claremont  
 A.B. (Pomona College) 1916.  
*Thesis:* Russian-Jewish immigration from 1881 to 1915.
- George Guy Allee ..... Chemistry ..... Compton  
 A.B. (Indiana University) 1904.  
*Thesis:* A study of California petroleum.
- Julia Lillias Andrews ..... Mathematics ..... Upland  
 A.B. (Pomona College) 1916.  
*Thesis:* The construction of a desmic system of tetrahedra.
- Lucy Schall Baer ..... Education ..... Berkeley  
 A.B. 1915.  
*Thesis:* Health supervision in the Oakland schools.
- \*Clara Emma Balmat ..... Mathematics ..... Pomona  
 A.B. (Pomona College) 1916.  
*Thesis:* Algebraic epicycloids and hypocycloids.
- Ella McLaughlin Barkley ..... Education ..... Berkeley  
 A.B. (Southwestern University) 1912.  
*Thesis:* The use of intelligence tests in the public schools.

- Sam Francis Batdorf ..... English ..... Berkeley  
A.B. 1915.  
*Thesis:* The personal element in literary criticism.
- Georgia Louise Baxter ..... Economics ..... Denver, Colorado  
A.B. (University of Denver) 1914.  
*Thesis:* A statistical investigation into the shape of demand curves.
- Margaret Isabel Beattie ..... Public Health ..... San Jose  
A.B. 1915.  
*Thesis:* A study of the air conditions in various schoolrooms in Alameda County, California.
- Lillian Elizabeth Beede ..... English ..... Whittier  
A.B. (Occidental College) 1915.  
*Thesis:* The relation of Bret Harte to the short story.
- \*Hester Cooke Bombower ..... Physics ..... Oakland  
B.S. 1915.  
*Thesis:* The thermal and electrical conductivities of Wood's metal at the fusion point.
- Geraldine Boothe ..... German ..... Petaluma  
A.B. 1916.  
*Thesis:* Goethe's attitude towards the nobility and the middle classes.
- Catherine Josephine Boyle ..... English ..... San Francisco  
A.B. 1916.  
*Thesis:* Pater's views of Christianity.
- Dolores Elizabeth Bradley ..... Pathology and Bacteriology ..... Alameda  
B.S. 1912.  
*Thesis:* Some comparative studies in the etiology of certain spontaneous laboratory infections in rabbits.
- Marion Agnes Brown ..... History ..... Alameda  
A.B. 1916.  
*Thesis:* Federal Indian policy in New Mexico, 1846-1851.
- \*Marion Ernest Cady ..... Education ..... Berkeley  
A.B. (Battle Creek College) 1893.  
*Thesis:* Seventh-day Adventist denominational schools on the Pacific Coast.
- \*Grace Ferne Caldwell ..... History ..... Berkeley  
A.B. (University of Minnesota) 1905.  
*Thesis:* Couthon as a member of the Great Committee of Public Safety, 1793-1794.
- Edith Louise Charles ..... Botany ..... Berkeley  
A.B. 1916.  
*Thesis:* The development of the cystocarp in *Gymnogongrus linearis*.
- Jesse Ludowick Cobb ..... History ..... Tulare  
A.B. (Pomona College) 1916.  
*Thesis:* The establishment of civil government in Oregon, 1837-1845.
- Hazel Minnie Collins ..... History ..... Visalia  
A.B. 1916.  
*Thesis:* Rivera's inspection of the frontier presidios of New Spain, 1724-1728.

- Etta May Conkle ..... Physiology ..... Santa Ana  
A.B. 1915.  
*Thesis:* The effect of certain gland extracts on the division-rate of *Paramecium*.
- Ralph Hinsdale Coon ..... Physics ..... Riverside  
A.B. 1915.  
*Thesis:* The surface tension of molten metals determined by means of oscillating drops.
- William John Cooper ..... Education ..... Berkeley  
A.B. 1906.  
*Thesis:* The teaching of civics.
- Leona Cope ..... Anthropology ..... Red Bluff  
A.B. 1916.  
*Thesis:* Calendars of the Indians north of Mexico.
- Marguerite Cordell ..... Graphic Art ..... Salt Lake City, Utah  
A.B. 1916.  
*Thesis:* The expression of the human figure traced in art throughout the ages.
- Sophie Louise Cumings ..... Education ..... Redlands  
B.S. (University of Redlands) 1914.  
*Thesis:* Indications of progress in secondary science teaching.
- Orville Elsworth Cushman ..... Chemistry ..... Vermillion, South Dakota  
A.B. (University of South Dakota) 1912.  
*Thesis:* The free energy of dilution of sulfuric acid.
- Pirie Davidson ..... Zoology ..... San Rafael  
A.B. 1915.  
*Thesis:* The musculature of *Heptanchus maculatus*.
- Ernest Raymond DeChenne ..... Architecture ..... Sprague, Washington  
A.B. 1915.  
*Thesis:* Life and works of H. H. Richardson.
- \*Cora Elva Dill ..... Mathematics ..... Mt. Pleasant, Iowa  
B.S. (Iowa Wesleyan University) 1892; A.B. (State University of Iowa) 1915.  
*Thesis:* Orthogonal invariants of binary and ternary forms.
- May Lucille Donald ..... Hygiene ..... Suisun  
B.S. 1915.  
*Thesis:* The differentiation on sugars of organisms morphologically diphtheria.
- \*Grace Bell Dotts ..... English ..... Denver, Colorado  
Ph.B. (University of Chicago) 1908.  
*Thesis:* Bret Harte's indebtedness to Charles Dickens.
- Alice Day Duschak ..... Chemistry ..... Berkeley  
A.B. (Vassar College) 1916.  
*Thesis:* The heats of fusion of triphenylmethane and anthraquinone.
- Elizabeth Janet Easton ..... Mathematics ..... Monterey  
A.B. 1916.  
*Thesis:* On a space transformation due to Steiner.

- Edith St. John Eaton ..... Education ..... Berkeley  
 A.B. (University of Michigan) 1907.  
*Thesis:* The Junior College as a vocational school for women.
- Felix Flügel ..... Economics ..... Palo Alto  
 A.B. (Stanford University) 1914.  
*Thesis:* Coffee valorization in Brazil.
- Orra Stella Fulton ..... German ..... Oakland  
 A.B. (University of Washington) 1915.  
*Thesis:* Goethe and Klinger.
- Fanny Woodhull Gaddis ..... History ..... Monterey  
 B.L. 1914.  
*Thesis:* A catalogue of a collection of manuscript documents relative to South-western history, with an introduction.
- Persis Ethel Geier ..... Mathematics ..... Pomona  
 A.B. (Pomona College) 1918.  
*Thesis:* The astroid of the ellipse.
- Marea Rosa Goddard ..... Spanish ..... San Diego  
 A.B. (Knox College) 1911.  
*Thesis:* Don Manuel José Quintana, poeta lírico.
- Mildred Ide Gorham ..... History ..... Berkeley  
 A.B. 1916.  
*Thesis:* The development of the Coahuila-Texas frontier, 1670-1700.
- \*Mildred Marie Goyette ..... Latin ..... Los Angeles  
 A.B. 1915.  
*Thesis:* A study of *fatum* in selected Latin authors and in the Carmina Sepulcralia Latina.
- Elizabeth Haass ..... German ..... Wichita, Kansas  
 A.B. (Fairmount College) 1912.  
*Thesis:* Goethe and the "Empfindsamen" in Darmstadt.
- Melville Denny Hawkins ..... Political Science ..... Berkeley  
 A.B. (Earlham College) 1911.  
*Thesis:* The present policy of the United States towards Latin-America.
- Marguerite Evangel Henrich ..... Graphic Art ..... Berkeley  
 A.B. 1916.  
*Thesis:* A survey of the development of perspective.
- Winifred Rachel Hogan ..... English ..... Lancaster  
 A.B. (Pomona College) 1914.  
*Thesis:* Arnold Bennett, an interpretative study.
- Adah Roberta Holmes ..... Research Medicine ..... San Francisco  
 A.B. 1916.  
*Thesis:* Investigations of methods of disinfection as carried on in dental offices.
- Frederick Horridge ..... Education ..... San Jose  
 A.B. (College of the Pacific) 1914.  
*Thesis:* A comparison of Dewey's *Democracy and Education*, Moore's *What is Education?* and Welton's *What Do We Mean by Education?*

- Henry Temple Howard ..... Architecture ..... Berkeley  
 A.B. 1916.  
*Thesis:* Michelangelo Buonarroti, with special reference to his architecture and its influence.
- Maybelle Lena Hudson ..... Spanish ..... Oakland  
 A.B. 1915.  
*Thesis:* The history of the Missions at La Junta de los Rios, 1715-1758.
- Surendra Nath Karr ..... Political Science .....  
 ..... Bikrampur, Bengal, India  
 A.B. (University of Washington) 1915.  
*Thesis:* Federation of the British Empire.
- Sadie Jeannette Kiekintveld ..... English ..... San Jose  
 A.B. 1915.  
*Thesis:* Originality of the imagery in the Deutero-Isaiah.
- Antoinette Knowles ..... English ..... San Jose  
 A.B. (Stanford University) 1906.  
*Thesis:* Oral English, or the art of speaking.
- Frederick William Koch ..... Botany ..... Berkeley  
 B.S. 1896.  
*Thesis:* The distribution of California ferns.
- Martha Emma Koenig ..... German ..... San Francisco  
 A.B. 1916.  
*Thesis:* Die Jungfrau von Orleans bei Shakespeare, Voltaire, und Schiller.
- Edith Jane Lamb ..... History ..... Champaign, Illinois  
 A.B. (University of Illinois) 1914.  
*Thesis:* The formation of the State of Nevada, 1840-1864.
- Bertha Alejandra Lawson ..... Mathematics ..... Santa Cruz  
 A.B. 1916.  
*Thesis:* Schroeter's theory of the space-curve of fourth degree, species I.
- Herman Joshua Hessel Levinson ..... Chemistry ..... Seattle, Washington  
 A.B. (University of Washington) 1912.  
*Thesis:* The conversion of the alkyl cinchonins into the alkyl cinchotoxins.
- Jessie Mildred Lewis ..... Economics ..... Wenatchee, Washington  
 A.B. (University of Washington) 1914.  
*Thesis:* The legal minimum wage.
- Théodora de Laplène Livingstone ..... French ..... Weymouth, England  
 Student, University of Edinburgh.  
*Thesis:* Le caractère de Mirabeau d'après sa correspondance avec La Marck.
- George Coe Lorbeer ..... Education ..... Claremont  
 A.B. (Pomona College) 1914.  
*Thesis:* Correlation of school and playground.
- Pearl Antoinette Lutzi ..... English ..... Berkeley  
 B.S. 1912.  
*Thesis:* The social and religious ideas of W. H. Mallock.



- Phoebe Merl McClees ..... Mathematics ..... Claremont  
A.B. (Pomona College) 1918.  
*Thesis*: The moving centre of three-bar motion.
- \*Katharine Rachel McCreery ..... German ..... Santa Barbara  
A.B. 1915.  
*Thesis*: Goethe and the composers of his time.
- William Donald McDonald ..... Philosophy ..... Meriden, Iowa  
A.B. (Grinnell College) 1914.  
*Thesis*: The imagination in Hobbes.
- Daniel Brooke McKinnon ..... Latin ..... Boston, Massachusetts  
A.B. (Harvard University) 1914.  
*Thesis*: The clemency of Caesar.
- \*Howard Ernest McMinn ..... Botany ..... Berkeley  
B.S. (Earlham College) 1914.  
*Thesis*: The rôle of factors concerned in the plant distribution of Hamilton Gulch, Berkeley Hills.
- Karl Franklin McMurry ..... Economics ..... Oakland  
A.B. (University of Illinois) 1902.  
*Thesis*: Supplementary bookkeeping problems for high-school classes.
- Louise Eberlein McRoberts ..... Public Health ..... Sacramento  
A.B. 1916.  
*Thesis*: The anopheline mosquitoes of Northern California with special reference to their distribution.
- Wing Ngui Mah ..... Political Science ..... Berkeley  
Cand. A.B. (University of Illinois) 1917.  
*Thesis*: Chinese-Japanese relations, 1871-1916.
- Bertha Evelyn Malone ..... German ..... Berkeley  
B.S. (Michigan Agricultural College) 1900; A.B. (University of Michigan) 1905.  
*Thesis*: Goethe and Napoleon.
- Anna Martin ..... Botany ..... Claremont  
A.B. (Pomona College) 1916.  
*Thesis*: The development of the cystocarp of *Iridaea laminarioides*.
- Walter Given Martin ..... Sociology ..... Waterman  
A.B. (Ottawa University) 1914.  
*Thesis*: A study of self-government in the Preston School of Industry.
- John Lloyd Mecham ..... History ..... San Bernardino  
A.B. 1916.  
*Thesis*: The Rodriguez expedition into New Mexico, 1581-1582.
- Freda Rose Meyer ..... Botany ..... San Rafael  
A.B. 1916.  
*Thesis*: Development of the cystocarp in *Cryptosiphonia*.
- Charles Solomon Mitrani ..... History ..... Los Angeles  
A.B. 1916.  
*Thesis*: The rise of the Spanish *consulados*.

- Euphrasie Molle ..... French ..... Los Angeles  
 Brevet Supérieur, Académie de Toulouse, 1888.  
*Thesis:* Victor Hugo, poète de la famille et de la patrie.
- Guy Montgomery ..... English ..... Salt Lake City, Utah  
 A.B. (University of Nebraska) 1909.  
*Thesis:* Some representative songs of the lower races, edited and annotated, with an essay on the cultural background of these races.
- Earle Hatley Myers ..... Architecture ..... Berkeley  
 A.B. 1915.  
*Thesis:* Illumination, from the architect's viewpoint.
- Anna Witte Neff ..... History ..... San Antonio, Texas  
 A.B. 1916.  
*Thesis:* The Great Committee of Public Safety and Education during the Reign of Terror, 1793-1794.
- Marian Nowell ..... Epigraphy ..... Berkeley  
 A.B. 1915.  
*Thesis:* Foreign elements in the religious monuments of Roman Britain.
- Sarah Elizabeth Olsen ..... German ..... Concord  
 A.B. 1916.  
*Thesis:* The feminine characters in Goethe's "Die Leiden des jungen Werthers," "Wilhelm Meisters Lehrjahre," and "Die Wahlverwandschaften."
- Harriet Knight Orr ..... Economics ..... Oakland  
 A.B. (University of Wyoming) 1898.  
*Thesis:* Social agencies for the Americanization of immigrants.
- Mantie J Palmer ..... Mathematics ..... Oakdale  
 A.B. 1916.  
*Thesis:* Schroeter's theory of plane curves of the third order.
- Hattie Belle Paul ..... Spanish ..... Crockett  
 B.L. 1910.  
*Thesis:* The Garcés reports on the Southwestern Indians.
- Laurence Hélène Péchin ..... French ..... San Francisco  
 B.L. 1914.  
*Thesis:* Daudet, the Dickens of French Literature.
- Emilie Roberta Poppe ..... German ..... Sonoma  
 A.B. 1915.  
*Thesis:* Goethe and America.
- Jessie Lunt Preble ..... Psychology ..... Stockton  
 A.B. 1913.  
*Thesis:* An experiment on persistence in children.
- William Gerry Rector ..... English ..... Merced  
 A.B. 1915.  
*Thesis:* The analytic and dramatic method in literature.
- Rhoda Ramona Reed ..... Botany ..... San Luis Obispo  
 B.S. 1913.  
*Thesis:* On San Luis Obispo County as an algal demarcation area.

- Violet Richardson ..... Education ..... Berkeley  
 B.S. 1912.  
*Thesis:* The organization and administration of physical education.
- Rudolph Herman Ringe ..... German ..... San Francisco  
 Ph.G. (New York College of Pharmacy) 1898; A.B. 1916.  
*Thesis:* Goethe and Spinoza.
- Ralph Smith Roberts ..... Psychology ..... Keosauqua, Iowa  
 A.B. (Stanford University) 1916.  
*Thesis:* Psychological aspects of the training at the Preston School of Industry.
- \*Catharine Rogers ..... English ..... Los Gatos  
 A.B. 1915.  
*Thesis:* Motivation in the novels of George Gissing.
- Stanislaus Kurt Rosenkranz ..... Spanish ..... Vancouver, British Columbia  
 A.B. 1916.  
*Thesis:* The Uribarri expedition to Cuartelejo in 1706.
- Cecile Ida Rowe ..... Botany ..... Pasadena  
 A.B. 1916.  
*Thesis:* The development of the cystocarp in *Glotosiphonia*.
- Julia Edna Schaner ..... English ..... Oakland  
 A.B. 1916.  
*Thesis:* Hawthorne: realist, Puritan, idealist.
- Martha Louise Scroggy ..... German ..... Santa Cruz  
 A.B. 1916.  
*Thesis:* Goethe and Charlotte von Stein.
- Lynne Lee Shew ..... Education ..... San Jose  
 A.B. 1916.  
*Thesis:* The administration of girls' normal schools for primary and secondary teachers in China.
- \*Miriam Elizabeth Simpson ..... Chemistry ..... Sebastopol  
 A.B. 1915.  
*Thesis:* A study of the analysis of hydroxylamine.
- Mildred Penrose Stewart ..... Public Health .....  
 ..... Germantown, Pennsylvania  
 A.B. (Vassar College) 1908.  
*Thesis:* The cost of health administration in Alameda County under the unit plan as compared with present methods.
- Harold Francis Taggart ..... History ..... Berkeley  
 A.B. (Earlham College) 1915.  
*Thesis:* Diplomacy under Jefferson.
- James Sturdevant Taylor ..... Mathematics ..... Pomona  
 A.B. 1916.  
*Thesis:* The complete existential theory of Bernstein's set of four postulates for Boolean algebras.
- Carl Louis Thiele ..... Education ..... Fresno  
 A.B. 1916.  
*Thesis:* A proposed consolidation of the rural schools of Fresno County.

**38 Masters of Arts—Graduate Division. Graduates—Architecture; Education**

George Tomb ..... Drawing ..... Marysville  
A.B. 1916.  
*Thesis:* Ship drawings.

\*Rosebud Mabel Vaughan ..... English ..... Conway, Arkansas  
A.B. (University of Arkansas) 1911.  
*Thesis:* The influence of the popular ballad of England and Scotland upon the writing of Sir Walter Scott.

Raymond Eugene Warner ..... Education ..... Olivia, Minnesota  
A.B. (University of Oregon) 1915.  
*Thesis:* The organization and administration of the Junior High School.

Arthur Lawrence Waugh ..... Education ..... Berkeley  
A.B. 1916.  
*Thesis:* History and development of the pension system for teachers in the United States.

\*Hilda Fay Webb ..... Mathematics ..... Oakland  
A.B. 1915.  
*Thesis:* A special quartic curve obtained by finding the envelope of a system of conics.

\*Emma Kirtland Whiton ..... Mathematics ..... Berkeley  
A.B. (Colorado College) 1909.  
*Thesis:* On the fixed centre of three-bar motion.

Genevieve Wilcox ..... English ..... Mt. Vernon, Washington  
A.B. (Whitworth College) 1910.  
*Thesis:* Realism of low life in Walter Scott.

Maud Eunice Wilson ..... History ..... Oakland  
B.L. 1908.  
*Thesis:* Federal exploration in California from 1841 to 1855.

Mary Olive Wood ..... Zoology ..... San Francisco  
A.B. 1916.  
*Thesis:* The habits and habitat relations of the rodent *Microtus californicus*.

**The Degree of Graduate in Architecture (School of Architecture) upon**

Ernest Raymond DeChenne ..... Sprague, Washington  
A.B. 1915.  
*Thesis:* A country home.

**The Degree of Graduate in Education (School of Education) upon**

Percy Elliott Rowell ..... Berkeley  
B.S. 1906; M.S. 1912.  
*Thesis:* Introductory science as educational means.

# **The Degree of Graduate in Public Health upon**

Richard Arthur Bolt .....San Jose  
 A.B. 1904 and M.D. 1906 (University of Michigan).  
*Thesis:* The problems presented to a children's department of a university hospital  
 in meeting the medical-social needs of a cosmopolitan city.

# **The Degree of Juris Doctor (School of Jurisprudence) upon**

Watson Breckenridge .....Berkeley  
 B.S. 1888 and M.S. 1891 (Wheaton College); B.D. (Oberlin College) 1891.  
*Thesis:* The measure of damages to be accorded an innocent trespasser on mining  
 claims.

Elmer Granville Burland .....Visalia  
 A.B. 1915.  
*Thesis:* The California standard form of fire insurance policy.

Thomas Gassner Chamberlain .....Auburn  
 A.B. 1915.  
*Thesis:* Notes on certain cases in contracts, evidence, and constitutional law.

Aloysius Ignatius Diepenbrock .....Sacramento  
 A.B. 1915.  
*Thesis:* Comments on cases in contract and constitutional law.

Charles Morel Fryer .....Oakland  
 A.B. 1915.  
*Thesis:* Remoteness of vesting as the test of a perpetuity in California.

Jacob Goldberg .....Los Angeles  
 A.B. 1915.  
*Thesis:* Review of certain cases in evidence and constitutional law.

Leo David Hermle .....Oakland  
 A.B. 1915.  
*Thesis:* Effect of previous action on inconsistent remedial right.

Samuel Frederick Hollins .....Los Angeles  
 A.B. 1915.  
*Thesis:* Discussion of recent decisions in the law of torts, mines, and crimes.

Ralph Edwin Hoyt .....Berkeley  
 A.B. 1915.  
*Thesis:* Discussion of recent cases in constitutional law and in public and private  
 corporations.

Harrison Alexander Jones .....San Francisco  
 A.B. 1915.  
*Thesis:* Principles involved in recent cases on the law of property, contracts, and  
 crimes.

Joseph Leo Knowles .....Sacramento  
 A.B. 1915.  
*Thesis:* An analysis of certain cases in contracts and constitutional law.

- Richard Morris Lyman, Jr. ....Oakland  
A.B. 1915.  
*Thesis:* The interest acquired by a grantee of tide lands in California.
- Frank Hobart Marvin .....Oakland  
A.B. 1915.  
*Thesis:* Comment on certain cases in conflict of laws, corporations, and equity.
- Ralph Truman Merriam .....Pasadena  
A.B. 1915.  
*Thesis:* The passenger carrier's duty of transportation service: to whom is it owing?
- \*August Frederick Muentner .....Stockton  
B.L. 1914.  
*Thesis:* Discussion of recent decisions.
- Frederic Freeman Ottofy .....Manila, P. I.  
B.L. 1914.  
*Thesis:* Rights and obligations of connecting carriers *inter se* under the Act to Regulate Commerce.
- Oscar Charles Parkinson .....Stockton  
A.B. 1915.  
*Thesis:* Discussion of principles involved in procedure, administration, and property.
- James Margrave Perry .....Greenville, South Carolina  
A.B. (Greenville College) 1913; A.B. 1915.  
*Thesis:* Examination of certain cases in admiralty, torts, and property.
- Donovan Otto Peters .....Riverside  
A.B. 1915.  
*Thesis:* The test of the public calling.
- Jaroline Rehfish .....Berkeley  
A.B. 1915.  
*Thesis:* A critical analysis of recent decisions in constitutional law, insurance, and procedure.
- Jacques François Resleure .....Sydney, Australia  
A.B. 1915.  
*Thesis:* A review of certain cases in constitutional law, admiralty, and damages.
- George Rosen .....Oakland  
Gr. in Th. (University of Yureff, Dorpat, Russia) 1894.  
*Thesis:* Wife's rights in community property in California.
- Blair Sterrett Shuman .....Santa Barbara  
A.B. (Yale University) 1915.  
*Thesis:* Discussion of recent cases in the law of waters, insurance, and procedure.
- William Ashley Sitton .....Sacramento  
A.B. 1915.  
*Thesis:* Comments on cases in pleading, municipal corporations, and public service companies.

- Charles Verne Taylor .....Sacramento  
 B.L. 1914.  
*Thesis:* The state farm system for misdemeanants in California.
- Robert Rugg Thomas .....San Francisco  
 B.L. 1914.  
*Thesis:* What is flood water, storm water, or extraseasonal water, and how far the taking of such water is justified, without infringing riparian rights.
- Matt Wahrhaftig .....Orangevale  
 B.L. 1914.  
*Thesis:* Review of certain cases in administration, pleading, and damages.
- Thomas Damourjian Wallace .....Reedley  
 A.B. 1915.  
*Thesis:* The status of irrigation companies in California.
- Strother Perry Walton .....Sanger  
 B.L. 1914.  
*Thesis:* "Willful misconduct" under the Workmen's Compensation Act of California.
- Frances Hamrick Wilson .....Berkeley  
 A.B. 1915.  
*Thesis:* Examination of certain cases in evidence, torts, and disbarment proceedings.

#### The Degree of Doctor of Medicine (Medical School) upon

- Frank Philip Brendel .....Sacramento
- Pini Joseph Calvi .....San Francisco  
 B.S. 1914.
- Allan Largess Cohn .....San Francisco  
 B.S. 1914.
- Mendel Leopold Cohn .....Berkeley  
 B.S. 1914.
- Orrin Simeon Cook .....Lodi  
 B.S. 1914.
- Charles Alfred Craig .....Lakeport
- Jewel Fay .....San Francisco  
 B.L. 1912.
- Howard Webster Fleming .....San Jose  
 B.S. 1914.
- William Christensen Frey .....Modesto
- James Ernest Harvey .....Los Angeles
- Robert Harold Heaney .....San Francisco  
 A.B. (St. Ignatius University) 1912.

Mervyn Heller Hirschfeld .....	San Francisco
B.S. 1914.	
Merrill Windsor Hollingsworth .....	Los Angeles
B.S. 1914.	
Horace Hoagland McCoy .....	Beaumont
B.S. (Occidental College) 1913.	
Emma Mehlmann .....	San Luis Obispo
B.L. 1908.	
Hiram Edgar Miller .....	Elk Grove
A.B. 1916.	
Vinton Adolf Muller .....	Nevada City
Hugh Elmer Penland .....	Berkeley
B.S. (Oregon Agricultural College) 1900.	
Alma Stevens Pennington .....	San Francisco
B.S. 1914.	
Elizabeth Schulze .....	Berkeley
B.S. 1914.	
Lewis Seligman .....	Dinuba
Alson Anderson Shufelt .....	Reno, Nevada
Daniel Warren Sooy .....	Alameda
William Wallace Washburn .....	San Francisco
B.S. (Dartmouth College) 1914.	
John Chilton Williams .....	Berkeley
B.S. 1914.	
Elmo Russell Zumwalt .....	Richmond

#### **The Degree of Electrical Engineer upon**

Edward Nigel D'Oyly .....	Christchurch, New Zealand
B.E. (University of New Zealand) 1910; M.S. 1916.	
<i>Thesis:</i> Alternating current phenomena in parallel transmission systems.	

#### **The Degree of Doctor of Philosophy upon**

Phyllis Ackerman .....	Philosophy	Oakland
B.I. 1914; M.A. 1915.		
<i>Thesis:</i> Essays on Hegel's <i>Phaenomenologie</i> .		

*Wade Dinsmore Alter .....	Astronomy, Physics, Mathematics	Berkeley
B.S. (Westminster College) 1909; M.S. (University of Pittsburgh) 1910.		
<i>Thesis:</i> On the orbit of (132) Aethra.		



- Albert Lloyd Barrows ..... Zoology, Palaeontology ..... Nordhoff  
 B.S. (Pomona College) 1906; M.S. 1912.  
*Thesis:* The significance of skeletal variation in *Peridinium*.
- John Douglas Barter ..... Mathematics, Physical Chemistry ....  
 ..... Mirror Lake, British Columbia  
 A.B. (University of Toronto) 1909.  
*Thesis:* Certain properties of the homogeneous vector function of the  $m^{\text{th}}$  degree.
- George Boas ..... Philosophy, Psychology .....  
 ..... New York, New York  
 A.B. and M.A. 1913 (Brown University); M.A. (Harvard University) 1915.  
*Thesis:* An analysis of certain theories of truth.
- John Freeman Bovard ..... Zoology, Palaeontology ..... Berkeley  
 B.S. 1908; M.S. 1906.  
*Thesis:* The transmission of nervous impulses in relation to locomotion in the earthworm.
- Thomas Bow Brighton ..... Physical Chemistry, Inorganic Chem-  
 istry, Organic Chemistry .....  
 ..... Salt Lake City, Utah  
 B.S. (University of Utah) 1913; M.S. 1916.  
*Thesis:* The free energy of formation of cyanide ion and of hydrocyanic acid.
- Everett Somerville Brown ..... History ..... Antioch  
 B.L. 1907; M.L. 1908.  
*Thesis:* The constitutional history of the Louisiana Purchase, 1803-1812.
- Clifton Wirt Clark ..... Geology, Palaeontology .....  
 ..... Urbana, Illinois  
 A.B. 1913 and M.A. 1915 (University of Illinois).  
*Thesis:* Geology and ore deposits of the Santa Fe district, Mineral County, Nevada.
- Elmer Fred Davis ..... Geology, Mineralogy ..... Houston, Texas  
 B.S. 1910; M.S. 1912.  
*Thesis:* The rocks of the Franciscan Group, with special reference to the origin of the radiolarian cherts.
- James Roy Douglas ..... Political Science, Jurisprudence .....  
 ..... Berkeley  
 B.L. 1913; M.L. 1914.  
*Thesis:* Home rule and state administrative supervision of municipalities in the United States.
- Ermon Dwight Eastman ..... Physical Chemistry, Inorganic Chem-  
 istry ..... Marysville  
 B.S. 1913; M.S. 1914.  
*Thesis:* The measurement of low temperatures and the measurement of specific heats between 60° and 300° absolute.
- Christine Elizabeth Essenberg ..... Zoology, Botany ..... Berkeley  
 B.S. (Valparaiso University) 1911; M.S. 1914.  
*Thesis:* The factors controlling the distribution of the *Polynoidae* of the Pacific Coast of North America.
- \*Roy Gittinger ..... History ..... Norman, Oklahoma  
 A.B. (University of Oklahoma) 1902; M.A. (University of Chicago) 1906.  
*Thesis:* The history of the formation of the State of Oklahoma.

- Charles Wilson Hackett ..... History ..... Berkeley  
 A.B. (University of Texas) 1909; M.A. 1914.  
*Thesis:* The uprising of the Pueblo Indians of New Mexico, 1680-1682.
- John Norman Kendall ..... Botany, Genetics ..... Long Beach  
 B.S. 1914; M.S. 1915.  
*Thesis:* Abscission of flowers and fruits in the *Solanaceae* with special reference to *Nicotiana*.
- William Stephen Webster Kew ..... Palaeontology, Geology ..... San Diego  
 B.S. 1912; M.S. 1914.  
*Thesis:* Cretaceous and Cenozoic Echinoidea of the Pacific Coast of North America.
- Donald Babcock Keyes ..... Inorganic Chemistry, Physical Chemistry, Electrical Engineering ..... Berkeley  
 B.S. (New Hampshire State College) 1913; M.A. (Columbia University) 1914.  
*Thesis:* Equilibria involving cyanogen iodide and the free energy of cyanogen.
- Karl Clayton Leebrick ..... History ..... Berkeley  
 B.S. 1911; M.S. 1913.  
*Thesis:* The English expedition to Manila in 1762 and the government of the Philippine Islands by the East India Company.
- John William Lloyd ..... Pomology, Economics ..... Champaign, Illinois  
 B.S. (Wheaton College) 1897; B.S. 1899 and M.S. 1908 (Cornell University).  
*Thesis:* Co-operative and other organized methods of marketing California horticultural products.
- John Albert Marshall ..... Biochemistry, Dentistry ..... Berkeley  
 B.S. 1907; M.S. 1914; D.D.S. 1916.  
*Thesis:* The composition of saliva in relation to the incidence of dental caries.
- \*Frank Fielding Nalder ..... Education, Economics ..... Berkeley  
 A.B. (Washington State College) 1901; M.A. (Columbia University) 1904.  
*Thesis:* The American state reformatory with special reference to its educational aspects.
- Ferdinand John Neubauer ..... Astronomy, Mathematics ..... Eugene, Oregon  
 A.B. 1910 and M.A. 1912 (University of Oregon).  
*Thesis:* Orbit and preliminary perturbations of the minor planet (716) Berkeley.
- Robert Larimore Pendleton ..... Soil Chemistry, Botany ..... Saratoga  
 B.S. 1914.  
*Thesis:* Are all soils mapped under a given type name the same, or similar to one another?
- \*Robert James Piersol ..... Physics, Mathematics ..... Philadelphia, Pennsylvania  
 A.B. (Allegheny College) 1912; M.S. (Tulane University) 1913.  
*Thesis:* The influence of occluded gases on the photo-electric effect.
- Herbert Ingram Priestley ..... History ..... Berkeley  
 Ph.B. 1900 and M.A. 1907 (University of Southern California).  
*Thesis:* José de Gálvez, Visitor-General of New Spain, 1765-1771.

- Worth Huff Rodebush ..... Physical Chemistry, Physics..Berkeley  
A.B. 1912 and M.A. 1914 (University of Kansas).  
*Thesis*: The freezing points of concentrated solutions.
- Roscoe Frank Sanford ..... Astronomy, Physics..Mount Hamilton  
A.B. (University of Minnesota) 1905.  
*Thesis*: On some relations of the spiral nebulae to the Milky Way.
- James Wallace Spofford ..... Political Science, History .....Berkeley  
B.L. 1918; M.A. 1915.  
*Thesis*: The administrative work of the United States Philippine Commission.
- Chester Stock ..... Palaeontology, Zoology..San Francisco  
B.S. 1914.  
*Thesis*: The Pleistocene fauna of Hawver Cave.
- John Parker Van Zandt ..... Physics, Mathematics, Electrical  
Engineering .....San Diego  
B.S. 1914.  
*Thesis*: Oscillating systems damped by resistance proportional to the square of the velocity.
- Alice Leslie Walker ..... Classical Archaeology, Greek .....  
.....San Francisco  
A.B. 1906 and M.A. 1908 (Vassar College).  
*Thesis*: The Pottery of the necropolis of Locrian Halae.
- Dean David Waynick ..... Soil Chemistry, Biochemistry .....  
.....Spokane, Washington  
B.S. (University of Washington) 1914; M.S. 1915.  
*Thesis*: The chemical composition of the plant as further proof of the close relation between antagonism and cell permeability.

**The Honorary Degree of Doctor of Laws upon**

- Curtis Holbrook Lindley .....San Francisco  
LL.D. (University of Santa Clara) 1912.
- George Herbert Palmer .....Cambridge, Massachusetts  
A.B. 1864 and M.A. 1867 (Harvard University); LL.D. (University of Michigan)  
1894, (Union College) 1895, (Harvard University) 1906, (Dartmouth College)  
1909; Litt.D. (Western Reserve University) 1897. (Princeton University)  
1912.

**HONORS WITH THE BACHELOR'S DEGREE, 1916-17****IN THE COLLEGE OF AGRICULTURE**

John Willis Adriance	Laurance Emerson Haseltine
Helen Ladislaus Czarnecki	Ward Charles Jensen
William Allan Gee	Louis William Jongeneel
Ansel Franklin Hall	James McVicar Mills, Jr.

**Frank Wood****IN THE COLLEGES OF ENGINEERING AND CHEMISTRY****COLLEGE OF CHEMISTRY**

Clarence Walter Beebe	William Henry Hampton
Angier Hobbs Foster	Jack Kaufman

**Arthur William Mohr***Highest Honors***David Robert Merrill****COLLEGE OF CIVIL ENGINEERING**

Edwin Earle Blackie	LeRoy Farnham Krusi
Harry Neville Jenks	Walter Ruppel
Andrew Martin Jensen	Augustus Victor Saph

**Al Henry Siemer****COLLEGE OF MECHANICS**

Russell Dolman Berst	Heman Charles Greenwood
Llewellyn Michael Kraus Boelter	Kenneth Ward Houston
George Adair Fleming	William Simon Peterson

**COLLEGE OF MINING**

Henry Bruce Barkis, Jr.	Arthur Raymond May (Geology)
George Wesley Coffey	Roy Starbird

**Edward Hollister Wisser****IN THE COLLEGE OF COMMERCE****Economics**

George Howard Albertson	Claude Ezra Monlux
Raymond Williams Crook	Hilmer Oehlmann
Dwight Edward Eveleth	Prosper Reiter, Jr.
William McCalla Irvine	Homer Harold Tooley

**Claudius Nelson White***Highest Honors*

Barrett Nelson Coates	Edward Rowe Gundelfinger
<b>James Kenneth Lothead</b>	

IN THE COLLEGE OF LETTERS AND SCIENCE

**Anatomy**

Franklin Isadore Harris                      Hubbard Spencer Hoyt

**Anthropology**

Leona Cope                                      Florence Emma Underwood

*Highest Honors*

Lucile Hooper                                  Will Carleton McKern

**Architecture**

Edward Charles Nowers Brett              Carroll Clark

**Astronomy**

Carlos Samson Mundt

*Highest Honors*

Hamilton Moore Jeffers

**Botany**

Fred Nelson Aylward                      Elizabeth Van Everen Ferguson

Nina Cecile Beers                           Irene Hund

Mildred Pearl Crane                       Ruth Earl Merrill

Frederick Monroe Essig                   Lewis Samuel Rosenbaum

Ruth Elizabeth Thornburgh

**Celtic**

Verna May Darrow

**Chemistry**

Esther Kittredge

*Highest Honors*

David Robert Merrill

**Economics**

Mildred Adams                              Helen Rankin Jeter

Leila Baldwin Berry                       Leona Mills Jones

Robert Campbell Clark                   Donna Moses

Emily Harriet Huntington               Ruth Allison Turner

Frances Maude Welch

*Highest Honors*

Madison Henry Compton

**English**

Flossie Banks                                Iola Gladys Riess

Frances Leslie Brown                   John Laurence Seymour

Edith Ellis Kennedy                       Bernice Dunlap Smith

Frank Howard Wilcox

*Highest Honors*

George McGill Vogt

**French**

Rose Maria Pfund

**Geography**

Bertha Mabel Galloway

Mary Letitia Ross

**German**

Alice Bunnell Elliot

Lucille Alice Murphy

Erwin Gustav Gudde

Violet Agnes Palmer

Aila Bernice Holm

Rose Maria Pfund

Hildegard Johanna Johe

Mildred Frances Thomas

Laura Harriet Ulrich

**Graphic Art**

Angenetta Idell Beasley

*Highest Honors*

Cleo Theodora Damianakes

Martha Jensen

**Greek**

Hugh Vernon White

**History**

Frances Norene Ahl

Edith Harriet Logan

Arthur Scott Aiton

Ivander MacIver

Robert Blake

Warren Ludwig Lee Pierson

Barbara Burke

Mary Letitia Ross

Irene Estelle Hurley

Mary Ruth Smart

Harold Anthony Hyde

Robert Lacy Smyth

Marie Irene Kessler

Elizabeth Mabelle Snyder

**Household Art**

Lillian Du Bois Smith

Florence Zander

**Household Science**

Freda Cadell Bayley

Nora McKenzie

Nancy Irena Brown

Carey Dunlap Miller

*Highest Honors*

Doris Alden Daniels

**Jurisprudence**

Calla Mathison

Bert Franklin Rabinowitz

Eugene Mitchell Prince

Imra Margaret Wann

**Latin**

Marie Richmond Barney

Myrtle Viola Fitschen

Rose Bullard Chew

Vera Douglas Miller

*Highest Honors*

Jean Marjorie Deming

Lucy Hope Kieldsen

Ruth Pauline Nichols

**Mathematics**

**Stella Clare Andres**

**Elsie Jeannette McFarland**

**George Oliver Sagen**

**Philosophy**

**Katharine Van Dyke Bangs**

**George Lawrence Maxwell, Jr.**

**Simone Marthe Brangier**

**Ian Ozolin**

**Katherine Clancy**

**Harry Boyd Seymour**

**Elizabeth Hoyt**

**Ruth Sherman**

**Gladys May Kreamer**

**Jean Walker**

**Hazel Joy McCurdy**

**Anne Radford Wharton**

**Physical Education for Women**

**Alberta McNeely**

*Highest Honors*

**Helen Emma Rosenberg**

**Physics**

**Arthur Cobb Hardy**

**Political Science**

**Anna Frances Barrows**

**David Stoddart Shattuck**

**Thomas Wilford Dahlquist**

**Frances Comba Sweezy**

**Elise Posey**

**Avery Tompkins**

**Vangala Siva Ram**

**Esther Louise Witter**

**Pre-medical**

**Harry Pratt Smith**

**Public Health**

**Dorothy Elizabeth Wetmore**

*Highest Honors*

**Lois Valentine Lyon**

**Slavic Languages**

*Highest Honors*

**John Laurence Seymour**

**Spanish**

**Octavia Downie**

*Highest Honors*

**Irene Estelle Hurley**

**Zoology**

**Henry Oscar Falk**

**Armistead C. Leigh, Jr.**

**Ethel Pearl Walther**

# MILITARY COMMISSIONS, 1917 UNIVERSITY CADETS

Harold Putnam Detwiler .....	Colonel
John James Vandenburg .....	Lieutenant-Colonel
Fred H Reynolds .....	Major
William Hill Thomas .....	Major
Gordon Fitzhugh Stephens .....	Major
Carl George Hjelte .....	Major
John Southall Rozelle Pfund .....	Major
Floyd Theall McKune .....	Captain
Lewis Ryan Byington .....	Captain
Arthur Lafayette Warren .....	Captain
Frederick Monroe Essig .....	Captain
Henry Reginald Weber .....	Captain
Frank Macdonald Ogden .....	Captain
Louis Hubbard Penney .....	Captain
Edward Alexander Reinke .....	Captain
William Crumbaugh Douglas .....	Captain
Walter Nels Anderson .....	Captain
Henry Raymond Hogaboom .....	Captain
George Lawrence Maxwell, Jr. ....	Captain
Karl Howard Schilling .....	Captain
Milton Bray Weidenthal .....	Captain
Clifford Bert Cole .....	Captain
Evans Ronald Foster .....	Captain
Lloyd William Goepfert .....	Captain
Verne W Hoffman .....	Captain
Clifford Clyde Harter .....	Captain
Edmund Ward Andrews .....	Lieutenant
Alvah Putnam Roscoe Conklin .....	Lieutenant
Robert Nelson Donaldson .....	Lieutenant
William Simon Peterson .....	Lieutenant
Milton Abourn Wright .....	Lieutenant
Joseph Thomas Smith .....	Lieutenant
Francis Brown McCollom .....	Lieutenant
Chester Rudolph Francis Cramer .....	Lieutenant
David Frazer Bush .....	Lieutenant
Arthur William Mohr .....	Lieutenant
Baptiste Barthe .....	Lieutenant
Merriam Joseph Howells .....	Lieutenant
Richard Dean Sias .....	Lieutenant
Clarke Elmer Wayland .....	Lieutenant
Paul Raymond Brust .....	Lieutenant



# AWARDS OF GRADUATE AND PROFESSIONAL SCHOLARSHIPS AND FELLOWSHIPS 1917-1918

## LECONTE MEMORIAL FELLOWSHIP

FOUNDED BY THE ALUMNI ASSOCIATION, IN MEMORY OF PROFESSORS  
JOHN AND JOSEPH LECONTE

Jay McLean (Research Medicine) .....San Francisco  
B.S. 1914.

## JAMES M. GOEWEY SCHOLARSHIP

FOUNDED BY THE FAMILY OF THE LATE JAMES M. GOEWEY

David Robert Merrill (Chemistry) .....Berkeley  
Cand. A.B. 1917.

## UNIVERSITY FELLOWSHIPS

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

William Charles Boeck (Zoology) .....Berkeley  
B.S. (Carleton College) 1915; M.A. 1916; cand. Ph.D.

Lewis Alexander Bond (Chemistry) .....Eugene, Oregon  
B.S. (University of Oregon) 1916.

Harlan Woodbridge Johnson (Soils) .....Ames, Iowa  
B.S. 1914 and M.S. 1915 (Iowa State College).

Wendell Mitchell Latimer (Chemistry) .....Lawrence, Kansas  
A.B. (University of Kansas) 1915.

David Wight Prall (Philosophy) .....Santa Ana  
A.B. 1909 and M.A. 1910 (University of Michigan).

James Sturdevant Taylor (Mathematics) .....Berkeley  
A.B. 1916; cand. M.A. 1917.

Francis Edward Vaughan (Geology) .....Berkeley  
B.S. 1912; M.S. 1916.

Frank Howard Wilcox (English) .....Ontario  
Cand. A.B. 1917.

**FLOOD FELLOWSHIPS IN ECONOMICS**

FOUNDED BY MISS CORA JANE FLOOD

Howard Thompson Lewis .....Moscow, Idaho  
 A.B. (Lawrence University) 1910; M.A. (University of Wisconsin) 1911.  
 (One vacancy.)

**JOHN W. MACKAY JUNIOR FELLOWSHIPS IN ELECTRICAL  
ENGINEERING**

Llewellyn Michael Kraus Boelter .....Latah, Washington  
 Cand. B.S. 1917.  
 (One vacancy.)

**WHITING FELLOWSHIPS IN PHYSICS**

FOUNDED UNDER THE WILL OF THE LATE HAROLD WHITING

Hallam Hans Anderson .....Los Angeles  
 B.S. 1915 and M.A. 1916 (University of Southern California); cand. Ph.D.  
 Charles Henry Kunsman .....State College, New Mexico  
 B.S. (Pennsylvania College) 1914; M.S. 1915; cand. Ph.D.

**FRANK M. PIXLEY SCHOLARSHIP IN LAW**

Elbert Willard Davis .....Berkeley  
 A.B. 1916.

**SHEFFIELD SANBORN SCHOLARSHIPS**

FOUNDED BY MRS. FRANCIS B. SANBORN

*In the Medical School*

Franklin Isadore Harris .....San Francisco  
 Cand. A.B. 1917.

*In the School of Jurisprudence*

James Clifford Nichols .....Berkeley  
 A.B. 1916.

*In the Hastings College of the Law*

(One vacancy.)

**THE PROFESSOR F. V. PAGET SCHOLARSHIP IN FRENCH**

FOUNDED BY THE WILL OF MADAME F. V. PAGET

Edith S Anderson .....Madrid, Spain  
 A.B. (Mt. Holyoke College) 1910.

# LICK OBSERVATORY FELLOWSHIPS IN ASTRONOMY

Hamilton Moore Jeffers .....Pasadena  
 Cand. A.B. 1917.  
 Charles Donald Shane .....Oakland  
 A.B. 1915; cand. Ph.D.  
 (One vacancy.)

# MARTIN KELLOGG FELLOWSHIP IN ASTRONOMY

François Henroteau .....Chicago, Illinois  
 Sc.D. (Brussels) 1911.

# UNIVERSITY FELLOWSHIPS IN PACIFIC COAST HISTORY

FOUNDED BY THE ORDER OF THE NATIVE SONS OF THE GOLDEN WEST

Charles Wilson Hackett .....Berkeley  
 A.B. (University of Texas) 1909; M.A. 1914; cand. Ph.D. 1917.  
 John Lloyd Mecham .....San Bernardino  
 A.B. 1916; cand. M.A. 1917.  
 Charles Solomon Mitrani .....Los Angeles  
 A.B. 1916; cand. M.A. 1917.  
 James Fred Rippy .....Nashville, Tennessee  
 A.B. (Southwestern University); M.A. (Vanderbilt University).

# BERTHA HENICKE TAUSSIG MEMORIAL SCHOLARSHIP

FOUNDED BY THE WILL OF THE LATE HUGO A. TAUSSIG

Dorothy Epping (Household Art) .....Hood River, Oregon  
 Cand. A.B. 1917.

# THE PRESTON SCHOOL OF INDUSTRY FELLOWSHIPS

FOUNDED BY THE BOARD OF TRUSTEES OF THE PRESTON  
 SCHOOL OF INDUSTRY

Harland H Allen .....Greeley, Colorado  
 (Two vacancies.)

# JOSEPH BONNHEIM MEMORIAL SCHOLARSHIPS

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM, OF SACRAMENTO,  
 IN MEMORY OF THEIR DECEASED SON

Mildred Pearl Crane .....Sacramento  
 Cand. A.B. 1917.  
 Ethel Pearl Walther .....Elk Grove  
 Cand. A.B. 1917.  
 Lucile Welch .....Woodland  
 Cand. A.B. 1917.

# WILLIAM WATT KERR SCHOLARSHIP IN MEDICINE

Frederic George Maggs .....San Francisco

## WILLARD DAWSON THOMPSON MEMORIAL SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. JENNIE D. THOMPSON

Dwight Cooley Bardwell .....	Salt Lake City, Utah
Thomas Wilford Dahlquist .....	Salt Lake City, Utah
Cand. A.B. 1917.	
Harold Goss .....	Salt Lake City, Utah
Mildred Hawkins Hurd .....	Salt Lake City, Utah
Irvine McQuarrie (Physiology) .....	St. George, Utah
A.B. (University of Utah) 1915.	

## AWARDS OF UNDERGRADUATE SCHOLARSHIPS 1917-1918

NOTE.—The place of residence stated in each case is the place from which the student came at the time of admission to the University.

### PHOEBE A. HEARST SCHOLARSHIPS

FOUNDED BY REGENT PHOEBE A. HEARST

- \*Anne Beatrice Brake, Senior, Letters and Science, San Jose.
- Helen Evelyn Glaze, Senior, Letters and Science, Boise, Idaho.
- Eleanor Kenyon Jennings, Senior, Letters and Science, Oakland.
- Marguerite Johnson, Senior, Letters and Science, Santa Rosa.
- Mabel Martin, Senior, Letters and Science, Long Beach.
- \*Myrtle Mollé, Senior, Letters and Science, San Francisco.
- Beulah May Morrison, Junior, Letters and Science, Laton.
- Docia Isabel Patchett, Senior, Letters and Science, Annapolis.
- Annie Mary Wallingford, Senior, Letters and Science, Prescott, Arizona.

### CORNELIUS B. HOUGHTON MEMORIAL SCHOLARSHIP

FOUNDED BY MRS. CORNELIUS B. HOUGHTON IN MEMORY OF HER  
HUSBAND

- \*Esther Laura Pooler, Sophomore, Letters and Science, Benicia.

### ALBERT SIDNEY JOHNSTON MEMORIAL SCHOLARSHIP

FOUNDED BY THE UNITED DAUGHTERS OF THE CONFEDERACY, CHAPTER No. 79

- Thomas Reese Bowen Ashby, Junior, Letters and Science, Sacramento.

---

\* Reappointed.

**HORATIO STEBBINS MEMORIAL SCHOLARSHIP**

FOUNDED IN MEMORY OF THE LATE REGENT HORATIO STEBBINS

Gerda Frederiksen, Senior, Letters and Science, Los Angeles.

**WILLIAM R. DAVIS SCHOLARSHIPS**

FOUNDED BY THE LATE WILLIAM R. DAVIS, '74

Milton Leroy Almquist, Senior, Mechanics, Atwater.

Milton Campbell Connick, Junior, Letters and Science, Eureka.

Carl Iddings, Senior, Chemistry, San Francisco.

**BERTHA DOLBEER SCHOLARSHIPS**

GIVEN BY MISS E. MARION WARREN OF SAN FRANCISCO

\*Carrie Bowen Dingley, Senior, Letters and Science, Berkeley.

Miriam Young Bonner, Junior, Letters and Science, Azusa.

**JOHN DOLBEER SCHOLARSHIPS**

GIVEN BY MISS E. MARION WARREN OF SAN FRANCISCO

Clarence Gustav Carlson, Senior, Commerce, Oleander.

Gilbert Hosmer Winter, Junior, Commerce, Santa Rosa.

**HELEN DU BOIS SCHOLARSHIP**

FOUNDED BY THE WILL OF MISS HELEN DU BOIS, '03

Helen Emelyn Dana, Senior, Letters and Science, San Diego.

**ELEANOR GATES SCHOLARSHIP**

GIVEN BY MRS. FREDERICK MOORE (ELEANOR GATES, '03)

Ida Muller, Senior, Letters and Science, Berkeley.

**ALUMNA SCHOLARSHIPS**

GIVEN BY A GRADUATE OF THE CLASS OF 1910

Vera Marie Bhend, Senior, Letters and Science, Newman.

Margo Sheppa, Senior, Letters and Science, Pacific Grove.

**ALUMNA SCHOLARSHIP**

GIVEN BY A GRADUATE OF THE CLASS OF 1904

\*Ruth Moodey, Senior, Letters and Science, St. Helena.

---

\* Reappointed.

**SAN FRANCISCO GIRLS' UNION SCHOLARSHIP**

\*Kathleen Crane, Junior, Letters and Science, Colusa.

**P. CHARLES COLE SCHOLARSHIP**

FOUNDED BY THE WILL OF MR. P. CHARLES COLE

\*Frank Foli Hargear, Junior, Letters and Science, Berkeley.

**JOSEPH BONNHEIM MEMORIAL SCHOLARSHIPS**

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM, OF SACRAMENTO,  
IN MEMORY OF THEIR SON

- \*Kenneth Henry Coates, Junior, Letters and Science, Sacramento.
- \*Thomas Joseph Connelly, Senior, Civil Engineering, Sacramento.
- Vera Emily Crispin, Senior, Letters and Science, Modesto.
- Clara Margaret Doud, Junior, Letters and Science, Oakland.
- \*Ruth Elaine Gibbons, Senior, Letters and Science, Orangevale.
- \*Luella Engel Haney, Junior, Letters and Science, Modesto.
- Karl Eliot Kennedy, Senior, Letters and Science, Sebastopol.
- John Walker Kimball, Junior, Agriculture, Chino.
- Eleanor King, Sophomore, Letters and Science, Sacramento.
- \*Marjorie Clothilde La Grave, Senior, Letters and Science, Sacramento.
- \*Mary Lena Levendusky, Sophomore, Letters and Science, Lytton.
- \*Fondalite Lowry, Senior, Letters and Science, Sacramento.
- Henry Vincent Lutge, Senior, Civil Engineering, San Francisco.
- \*Margaret McCully, Junior, Letters and Science, Sacramento.
- Clyde Martin Seibert, Senior, Agriculture, Watsonville.
- Day-Verne Herbert Stearns, Junior, Commerce, El Paso, Texas.
- Genevieve Taggard, Senior, Letters and Science, Honolulu, T. H.
- Dorothy Wilmerding Tracy, Senior, Letters and Science, Sacramento.
- \*May Olive Wilson, Junior, Letters and Science, Dixon.
- Zara Witkin, Freshman, Mechanics, San Francisco.

**STATE OF CALIFORNIA SCHOLARSHIPS**

FOUNDED BY THE REGENTS OF THE UNIVERSITY OUT OF THE INCOME  
FURNISHED TO THE UNIVERSITY BY THE STATE

*First Congressional District*

Irma Arena Roper, Junior, Letters and Science, Point Arena.

\* Reappointed.

*Second Congressional District*

- \*Ruth Ella Fish, Senior, Letters and Science, Buckeye.
- Eva Emma Slater, Senior, Letters and Science, Santa Rosa.

*Third Congressional District*

Evelyn Chamberlain Adriance, Senior, Letters and Science, Napa.

*Fourth, Fifth, and Sixth Congressional Districts*

Marjorie Marquand Clark, Senior, Agriculture, San Francisco.  
Hal Daniel Draper, Senior, Letters and Science, Colorado Springs, Colorado.

- \*Howard Coit Ellis, Senior, Letters and Science, Oakland.
- Isabelle Martina Fiselbrand, Senior, Letters and Science, Berkeley.
- Walter Charles Hildebrand, Senior, Chemistry, San Francisco.
- Louise Marie Hurley, Junior, Letters and Science, Oakland.
- Harry Knopf, Sophomore, Letters and Science, Oakland.
- Grace Logie, Junior, Letters and Science, San Francisco.
- Julien Mathieu, Jr., Junior, Mining, Oakland.
- Henry Leopold Reich, Senior, Mechanics, Manila, P. I.
- Reginald Bryant Rule, Senior, Chemistry, Berkeley.
- Elsie Lucile Thomas, Senior, Letters and Science, Oakland.
- Irene A. Walker, Senior, Letters and Science, Berkeley.

*Seventh Congressional District*

- Nellie Amanda Bartlett, Sophomore, Letters and Science, Laton.
- \*Sophie Frederique Beekhuis, Senior, Letters and Science, Hanford.
- \*Leslie Allen Cleary, Senior, Letters and Science, Lindsay.

*Eighth Congressional District*

Nettie Corinthe Boyle, Junior, Letters and Science, Paso Robles.  
John Clark Oaks, Senior, Letters and Science, Paso Robles.

*Ninth and Tenth Congressional Districts*

- Theodore Carey Lawson, Senior, Letters and Science, Los Angeles.
- George Earl Troxell, Senior, Civil Engineering, Los Angeles.
- Lucile Watson, Junior, Letters and Science, Los Angeles.
- \*Frederick Ernest Weidenmueller, Senior, Agriculture, Pasadena.

*Eleventh Congressional District*

- \*Blanche Bertha Bouteiller, Senior, Letters and Science, Riverside.
- \*Duke Allan Lovell, Junior, Letters and Science, San Diego.
- Cora Ethel Powell, Junior, Letters and Science, Riverside.
- Selwyn Jackson Sharp, Junior, Commerce, Santa Ana.
- \*Edwin Osmond Slater, Senior, Civil Engineering, Riverside.

---

\* Reappointed.

## LEVI STRAUSS SCHOLARSHIPS

FOUNDED BY MR. LEVI STRAUSS. CONTINUED SINCE THE DEATH OF  
MR. STRAUSS BY THE LEVI STRAUSS COMPANY

*First Congressional District*

William McAllen Green, Junior, Letters and Science, Lakeport.  
Paul Horace Woods, Senior, Mechanics, Santa Rosa.

*Second Congressional District*

Alwyn John Baker, Junior, Letters and Science, Redding.  
Melvyn Lloyd James Frandy, Senior, Mechanics, Nevada City.

*Third Congressional District*

\*Vera Elizabeth Denton, Senior, Letters and Science, Vacaville.  
William Muriece Hoskins, Junior, Letters and Science, Woodland.  
Stephen Gunn Mark, Senior, Chemistry, San Rafael.

*Fourth, Fifth and Sixth Congressional Districts*

\*Alexander Nikolaos Angelou, Senior, Letters and Science, Monastir, Macedonia.

Carmen Urcell Blessing, Junior, Letters and Science, Oakland.  
Hildreth Mosher Caldwell, Sophomore, Letters and Science, Berkeley.  
Raymond Forrest Farwell, Senior, Letters and Science, Seattle, Washington.

\*Hans William Hansen, Junior, Chemistry, San Francisco.  
Helene Hickman, Junior, Letters and Science, San Francisco.  
Lillian Lockwood, Junior, Letters and Science, El Paso, Texas.  
Barbara Martha Mensing, Senior, Letters and Science, Portland, Oregon.  
Dorothy May Uren, Junior, Letters and Science, Oakland.

*Seventh Congressional District*

Glen Lester Hanner, Junior, Agriculture, Patterson.  
Kenneth Clarence Hawkins, Senior, Chemistry, Exeter.  
Elda Odessa Trent, Senior, Letters and Science, Laton.

*Eighth Congressional District*

Edith Sherburne, Junior, Letters and Science, San Jose.

*Ninth and Tenth Congressional Districts*

Carl Williams Appleford, Senior, Civil Engineering, Los Angeles.  
Rosalie Davis, Junior, Letters and Science, South Pasadena.  
\*Jean Constance Goff, Senior, Letters and Science, Pasadena.  
\*Theodore Rothman, Senior, Chemistry, Los Angeles.  
\*Ray Vandervoort, Senior, Letters and Science, Los Angeles.

---

\* Reappointed.



*Eleventh Congressional District*

- †\*Aimee Juliet Michelbacher, Senior, Letters and Science, Riverside.  
\*Archbold Hamline Robinson, Senior, Letters and Science, Riverside.  
Frank Henry Schacht, Junior, Letters and Science, Anaheim.  
Sarah Gertrude Wallace, Sophomore, Letters and Science, Wineville.

SWEDISH-AMERICAN PATRIOTIC LEAGUE OF CALIFORNIA  
SCHOLARSHIP

- \*Ruby Anna Lindberg, Sophomore, Letters and Science, Alameda.

DIRECTORS' SCHOLARSHIP IN THE CALIFORNIA COLLEGE OF  
PHARMACY

- James Bourland Berger .....Berkeley  
Cand. Ph.G. 1917.

PRIZES

BONNHEIM DISSERTATION PRIZES

FOUNDED BY THE LATE ALBERT BONNHEIM

*Upper Division*

- Calmur John Struble, of the class of 1917.  
Paul Sylvester Marrin, of the class of 1917.  
Mabel Anne Baird, of the class of 1918.  
Portia Pearl Baker, of the class of 1918.

*Lower Division*

- Luella Engel Haney, of the class of 1919.  
Malbone Watson Graham, Jr., of the class of 1919.  
Irene Ada Millier, of the class of 1920.  
Gladys Ethel Murphy, of the class of 1920.

BONNHEIM DISCUSSION PRIZES

FOUNDED BY THE LATE ALBERT BONNHEIM

*Upper Division*

- Calmur John Struble, of the class of 1917.

*Lower Division*

- Irene Ada Millier, of the class of 1920.

---

\* Reappointed.      † Until December, 1917.

**BRYCE HISTORICAL ESSAY PRIZE**

FOUNDED BY MR. RUDOLPH TAUSSIG

Helen Mabry Ballard, of the class of 1920.

**NEWMAN HALL ESSAY PRIZE**

FOUNDED BY THE ALUMNI COUNCIL OF THE NEWMAN CLUB

Irene Catherine Ball.

B.L. 1914.

**IRVING PRIZE**

FOUNDED BY MR. S. C. IRVING OF THE CLASS OF '79

Edwin Marshall Maslin, of the class of 1917.

**EMILY CHAMBERLAIN COOK PRIZE IN POETRY**

FOUNDED BY PROFESSOR ALBERT S. COOK

Helen Virginia Davis, of the class of 1918.

**MENORAH ESSAY PRIZE**

Jerome Haas Bayer, of the class of 1919.

**RICHARDSON LATIN TRANSLATION PRIZE**

ESTABLISHED BY THE WILL OF

THE LATE PROFESSOR GEORGE MOREY RICHARDSON

Alice Nettleton Macdonald, of the class of 1918.

*Honorable Mention:*

William McAllen Green, of the class of 1919.

**BENNETT PRIZE**FOUNDED BY MR. WILLIAM JENNINGS BRYAN AS TRUSTEE FOR THE LATE  
PHILO SHERMAN BENNETT

Vangala Siva Ram, of the class of 1917.

**CARNOT MEDAL**GIVEN ANNUALLY, SINCE 1895, BY THE BARON DE COUBERTIN IN HONOR OF  
THE LATE PRESIDENT CARNOT OF FRANCE

Martin Stern Rosenblatt, of the class of 1918.

**UNIVERSITY MEDAL**

**FOUNDED BY FRIENDS OF THE UNIVERSITY AND AWARDED ANNUALLY TO  
THE MOST DISTINGUISHED GRADUATE OF THE YEAR**

**George Lawrence Maxwell, Jr., of the College of Letters and Science.**

***Honorable Mention:***

**David Robert Merrill, of the College of Letters and Science and the  
College of Chemistry.**

**John Laurence Seymour, of the College of Letters and Science.**

**BERKELEY, May 16, 1917.**

1150-5,'17



# HAHNEMANN MEDICAL COLLEGE OF THE PACIFIC

---

COMMENCEMENT, 1917

AT BERKELEY, MAY 16

**By authority of the Faculty of the Hahnemann Medical College of the Pacific, the Degree of Doctor of Medicine will be conferred upon:**

Sharon Marion Atkins  
Antonio Lopez del Castillo  
Oscar Edwin Dahlen  
Marius Andre Francoz  
Ernest Clarence Greiner  
Franklin Elmer Kerr  
Joseph S Lee  
Catherine E Ohnemuller  
Robert Allen Powers  
Herbert R D Shoemaker  
John F Steele  
Louise Holmes Steel-Brooke  
Frederick Stein  
John Charles Wallace Taylor  
Heralda Tyng  
Roy Charles Woodhams  
Tang Leong Wong  
F L Kruse



**REGISTER—PART XIV**

**CATALOGUE OF OFFICERS AND  
STUDENTS, 1916-17**

**FEBRUARY, 1917**

**For supplementary list of names, academic departments, see page  
following list of undergraduates in these departments.**





# UNIVERSITY OF CALIFORNIA

## CATALOGUE OF OFFICERS AND STUDENTS FOR 1916-17

(To February 10, 1917)

### CONTENTS

	PAGE
Explanatory Note .....	2
The Regents of the University .....	3
Standing Committees of the Regents .....	4
Administrative Officers .....	5
Departments of Instruction .....	7
Standing Committees of the Academic Senate .....	10
Central Council of the Alumni Association .....	12
Executive Committee of the Associated Students .....	13
Class Officers .....	13
Officers of the Associated Women Students .....	13
Club House Loan Fund Committee .....	14
Officers and Assistants .....	15
Students at Berkeley, at Mt. Hamilton (the Lick Observatory), and at Davis (the University Farm)—Colleges of Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil Engineering, Chemistry, Schools of Architecture, Education, Jurisprudence, and the first two years in Medicine:	
Graduate Students .....	46
Undergraduate Students .....	77
Students in San Francisco and Los Angeles:	
Hastings College of the Law .....	177
Medical School .....	179
Los Angeles Medical Department .....	182
College of Dentistry .....	184
California College of Pharmacy .....	187
Statistical Summary .....	189
Fraternities and House Clubs .....	190
Telephone Guide .....	192
University Telephones .....	206

UNIVERSITY OF CALIFORNIA PRESS

BERKELEY

1917

## EXPLANATORY NOTE

In the CATALOGUE OF OFFICERS, the names of University buildings are abbreviated as follows: AH, Agriculture Hall; Anat, Anatomy Building; Arch, Architecture Building; B, Botany Building; Bac Lab, Bacteriology Laboratory; Bacon, Bacon Hall; BL, Bancroft Library; Boalt, Boalt Hall of Law; Budd, Budd Hall; Chem, Chemistry Building; Cal, California Hall; CE, Civil Engineering Building; D, Drawing Building; E, East Hall; Ent Lab, Entomology Laboratory; FCL, Fertilizer Control Laboratory; F, Forestry Building; HE, Home Economics Building; HG, Harmon Gymnasium; H, Hearst Gymnasium; HM, Hearst Memorial Mining Building; HP, Hygiene and Pathology Building; Inf, Infirmary; L, University Library; M, Mechanics Building; Mus, Museum of Greek Sculpture and Anthropology; Music, Music Building; MVZ, California Museum of Vertebrate Zoology; N, North Hall; O, Students' Observatory; P, Philosophy Building; PL, The Rudolph Spreckels Physiological Laboratory; S, South Hall; Vet, Veterinary Science Laboratory; W, Benjamin Ide Wheeler Hall.

Officers of Colleges or Departments situated elsewhere than in Berkeley are designated by an abbreviation following the title, viz: (D) College of Dentistry, (A) California School of Fine Arts, (H) Hastings College of the Law, (HF) George Williams Hooper Foundation for Medical Research, (LO) Lick Observatory, (M) Medical School, (Ph) California College of Pharmacy, (FS) University Farm School.

The following abbreviations are also used: M, Monday; Tu, Tuesday; W, Wednesday; Th, Thursday; F, Friday; S, Saturday; UC, University of California.

In the announcements of office hours, "daily" does not include Saturday or Sunday.

When no office hours are given, instructors may be consulted immediately before or after their recitations.

The dagger (†) marks the names of officers who are married; the asterisk (\*) the names of those absent on leave throughout the year; the superior figure, <sup>1</sup>, means in residence first half-year only; <sup>2</sup>, second half-year only; =, permanent mailing address, both for terms and vacations.

In the CATALOGUE OF STUDENTS, the college is indicated as follows: LS, Letters and Science; Com, Commerce; Agr, Agriculture; Mec, Mechanics; Med, Medicine (first and part of the second year); Min, Mining; CE, Civil Engineering; Chem, Chemistry. The status of the student is regular, unless otherwise indicated, as follows: s, special. The number 1, 2, 3, 4, etc., prefixed to the abbreviation showing the college indicates the class or year of residence; for graduate students in the School of Jurisprudence and in the Medical School the numeral denotes the class, not the year of residence in the Graduate Division. Students admitted this year with advanced standing are designated by (1) prefixed to the figure indicating the class; <sup>1</sup>, means in residence first half-year only; <sup>2</sup>, second half-year only. The (\*) marks the names of students who received the bachelor's degree in December, 1916. The (†) marks the names of graduate students who are registered for work in absence. PreA, following the abbreviation showing the college, indicates that the student is enrolled in the course preparatory to the School of Architecture; PreM, in the pre-medical course; PreL, in the pre-legal course; Juris, in the School of Jurisprudence. The abbreviation (H) denotes candidacy for honors of at least one half-year's standing; the course or department of study in which the student is a candidate for honors is given also.

The student's home is given immediately after the name; all home addresses are in the state of California, unless stated to be elsewhere. In the lines following the name and home address is given the student's status and his address and telephone number while at the University; and all such addresses are in Berkeley, unless stated to be elsewhere. The following abbreviations are used: ter, terrace; rd, road; pl, place; dr, drive; S F for San Francisco, O for Oakland, A for Alameda, R for Richmond, S L for San Leandro, S R for San Rafael. The address is preceded with telephone numbers denotes telephones on the University's exchange; Ala, Alameda; Bkly, Berkeley; Dgls, Douglas; Elm, Elmhurst; Frkn, Franklin; Frvt, Fruitvale; Grfld, Garfield; Krny, Kearny; Lkd, Merritt; Mrkt, Market; Man, Mission; Oakd, Oakland; Pied, Piedmont; Ppt, Prospect; Rchd, Richmond; Snst, Sunset; Sutr, Sutter; Valen,

## REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

### REGENTS EX OFFICIO

HIS EXCELLENCY HIRAM WARREN JOHNSON  
Governor of California and President of  
the Regents  
Sacramento

HON. WILLIAM DENNISON STEPHENS  
Lieutenant-Governor of California  
1140 W Twenty-seventh st, Los Angeles

CLEMENT CALHOUN YOUNG, B.L.  
Speaker of the Assembly  
Shattuck av and Addison st, Berkeley

EDWARD HYATT, B.S.  
State Superintendent of Public In-  
struction  
Sacramento

HON. JOHN M. PERRY  
President of the State Agricultural  
Society  
10 W Weber av, Stockton

LIVINGSTON JENKS, A.B., LL.B.  
President of the Mechanics' Institute  
807 Mechanics Institute bldg, San  
Francisco

BENJ. IDE WHEELER, Ph.D., LL.D., Litt.D.  
President of the University  
217 California Hall, Berkeley

### APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the board.

ISAIAH WILLIAM HELLMAN, Esq. (1918)  
Wells Fargo-Nevada National Bank, San  
Francisco

MRS. PHOEBE APPERSON HEARST (1930)  
Pleasanton  
Business address: 410 Hearst bldg, San  
Francisco

ARTHUR WILLIAM FOSTER, Esq. (1932)  
1210 James Flood bldg, San Francisco

GARRETT WILLIAM McENERNEY, Esq.  
(1920)  
2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG, Esq. (1932)  
Main and Mission sts, San Francisco

GUY CHAFFEE EARL, A.B. (1918)  
14 Sansome st, San Francisco

JAMES WILFRED MCKINLEY, B.S. (1922)  
706 Security bldg, Los Angeles

JOHN ALEXANDER BRITTON, Esq. (1930)  
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)  
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)  
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1924)  
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)  
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B.  
(1928)  
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)  
1631 Cimarron st, Los Angeles

JAMES MILLS, Esq. (1926)  
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1920)  
Fresno

*Committees of the Regents***OFFICERS OF THE REGENTS**

His Excellency Hiram Warren Johnson  
 President  
 Sacramento

Ralph Palmer Merritt, B.S.  
 Comptroller  
 220 California Hall, Berkeley

Victor Hendricks Henderson, B.L.  
 Secretary and Land Agent  
 209 California Hall, Berkeley

Mortimer Fleishacker, Esq.  
 Treasurer  
 Anglo-California Trust Company, San Francisco

Warren Olney, Jr., A.B., LL.B.  
 Attorney  
 1107 Merchants Exchange bldg. San Francisco

**STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1916-17\****Agriculture:*

Regents Foster, Dickson, Jenks, Mills,  
 and Perry  
 Regent Bowles, alternate

*Curriculum and Degrees:*

Regents Rowell, Moffitt, and C. S. Wheeler

*Finance:*

Regents Earl, Foster, Britton, Moffitt,  
 Taussig, and, as Member Emeritus,  
 Regent Hellman

*Grounds and Buildings:*

Regents Britton, Mrs. Hearst, Jenks,  
 Bowles, and C. S. Wheeler

*Lick Observatory:*

Regents Ramm, McEnerney, Young, and  
 Crocker

*Medical Instruction:*

Regents Crocker, Moffitt, Ramm, Dickson,  
 and Taussig

*Scripps Institution for Biological Research:*

Regents Dickson, McKinley, and Hyatt

*University Hospital:*

Regents Crocker, Taussig, Britton, Earl,  
 and Moffitt

*Wilmerding School:*

Regents Taussig, Earl, and Moffitt

*Executive Committee:*

This committee consists of the chairmen  
 of all standing committees

---

\* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

## ADMINISTRATIVE OFFICERS

The offices of the President, Secretary, Comptroller, Recorder, Appointment Secretary, and Manager of the University Press are open from 9 a.m. to 5 p.m. on week days, except on Saturday, when they close at 12 m.

The University Library is open from 8 a.m. to 10 p.m., Monday to Saturday, inclusive; and from 9 a.m. to 5 p.m., Sunday. Vacation schedule: Monday to Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 12 m.; closed Sunday.

The Infirmary is open daily, except Saturday afternoons and Sundays, from 8 to 10 a.m. and from 5 to 6 p.m. for men; and from 10 a.m. to 12 m. and from 3 to 4 p.m. for women. Sundays and holidays (by appointment), 9 to 10 a.m. for men; 10 to 11 a.m. for women. Dentists' hours: daily, excepting Sundays, 9 a.m. to 12 m.; 1 to 5 p.m. Oculists' hours: daily, excepting Thursdays and Sundays, 9 to 10 a.m. for men; 10 to 11 a.m. for women.

## IN BERKELEY

*President of the University:*

Dr. Benjamin Ide Wheeler  
217 California Hall

*Secretary to the President:*

Mr. Newton B. Drury  
217 California Hall

*Secretary of the Regents and Land Agent:*

Mr. Victor H. Henderson  
209 California Hall

*Comptroller:*

Mr. Ralph P. Merritt  
220 California Hall

*Assistant to the Comptroller:*

Mr. Robert G. Sproul  
220 California Hall

*Secretary to the Comptroller:*

Mrs. M. L. B. Graham  
303 California Hall

*Deans of the Academic Colleges:**The Faculties:*

Professor David P. Barrows  
217 California Hall

*The Graduate Division:*

Professor Armin O. Leuschner  
217 California Hall

*The Lower Division:*

Professor Thomas M. Putnam  
207 California Hall

*The Summer Session:*

Professor Walter M. Hart  
201 California Hall

*Women:*

Professor Lucy W. Stebbins  
205 California Hall

*Letters and Science:*

Professor Lincoln Hutchinson  
24 Wheeler Hall

*Agriculture:*

Professor Thomas F. Hunt  
112 Agriculture Hall

*Mechanics:*

Professor Clarence L. Cory  
38 Mechanics Building

*Mining:*

Professor Andrew O. Lawson  
221 Hearst Mining Building

*Civil Engineering:*

\*Professor Charles Derleth, Jr.  
Professor Charles G. Hyde, Acting  
204 Civil Engineering Building

*Chemistry:*

Professor Gilbert N. Lewis  
412 Chemistry Building

*Commerce:*

Professor Henry R. Hatfield  
120 Wheeler Hall

*Director of the School of Architecture:*

Professor John Galen Howard  
Architecture Building

*Director of the School of Education:*

Professor Alexis F. Lange  
108 California Hall

*Director of the School of Jurisprudence:*

Professor Wm. Carey Jones  
212 Boalt Hall of Law

*Recorder of the Faculties:*

Mr. James Sutton  
204 California Hall

*University Examiner:*

Professor B. M. Woods  
207 California Hall

*University Physician:*

Professor Robert T. Legge  
Infirmary

*Physician for Women:*

Professor Romilda Paroni  
Infirmary

*Director of University Extension:*

Professor Ira W. Howerth  
301 California Hall

*Administrative Officers***ADMINISTRATIVE OFFICERS IN BERKELEY—(Continued)***Appointment Secretary:*

Mrs. May L. Cheney  
208 California Hall

*Librarian:*

Mr. Joseph C. Rowell  
Library

*Associate Librarian:*

Mr. Harold L. Leupp  
Library

*Superintendent of the University Printing Office:*

Mr. Joseph W. Flinn  
Printing Office

*Manager of the University Press:*

Mr. Albert H. Allen  
University Press

*Superintendent of Grounds and Buildings:*

Mr. E. A. Hugill  
Superintendent's Office

*Alumni Secretary:*

Mr. H. Roney  
114 California Hall

**AT MOUNT HAMILTON***Director of the Lick Observatory:*

Dr. William W. Campbell  
Lick Observatory, Mount Hamilton

**IN SAN FRANCISCO***Treasurer of the Regents:*

Mortimer Fleishhacker, Esq.  
Anglo-California Trust Co.

*Attorney for the Regents:*

Warren Olney, Jr., Esq.  
Merchants' Exchange bldg

*California School of Fine Arts:*

Dean: Professor John A. Stanton  
California and Mason sts

*Hastings College of the Law—*

Dean: Professor Edward R. Taylor  
City Hall

Registrar: Mr. George J. Martin  
928 Pacific bldg

*\*Medical School—*

Dean: Professor Herbert C. Moffitt  
U C Medical School

*College of Dentistry—*

Dean: Professor Guy S. Millberry  
U C College of Dentistry

*California College of Pharmacy—*

Dean: Professor Franklin T. Green  
California College of Pharmacy

*Superintendent of the University Hospital*

H. T. Summersgill  
U C Hospital

**IN LOS ANGELES***‡ Los Angeles Medical Department—*

Dean: Professor George H. Kress  
245 Bradbury bldg.

\* The work of the first year and part of the second year of the Medical School is done in Berkeley.

‡ Graduate instruction only is offered in the Los Angeles Medical Department.

# DEPARTMENTS OF INSTRUCTION

WITH STAFF OF INSTRUCTION IN EACH; ALSO STATED MEETINGS  
JANUARY-MAY, 1917

The name appearing first under each department is that of the chairman of the department. The asterisk (\*) marks the names of instructors who are absent on leave throughout the year; <sup>1</sup>, in residence first half-year only; <sup>2</sup>, second half-year, only.

**Agriculture:** Hunt, Morgan (secretary), 112 AH; Gilmore, R. L. Adams, 11 Budd; Kennedy, 19 Budd; C. F. Shaw, Nelson, 17 Budd; Mulford, Mason, Bruce, Pratt, Metcalf, F.; Gregg, Stevens, 304 AH; Coit, Condit, 107 AH; <sup>1</sup>Stubenrauch, Taylor, Hendrickson, Sweet, 101 AH; Jaffa, 8 Budd; Matill, 6 Budd; Bioletti, 103 AH; Cruess, Zion, 8 FOL; Woodworth, 200 AH; Essig, 201 AH; Severin, 206 AH; Freeborn, 208 AH; R. E. Smith, 210 AH; Mead, F. Adams, 20 AH; Clarke, 2 AH; Crocheron, 4 AH; Haring, Traum, Roadhouse, 1 Budd; Babcock, Clausen, 100 AH; E. H. Smith, 308 AH; Burd, 5 FOL; Hoagland, Stewart, A. Smith, 18 FOL; Herms, 202 AH; Coleman, 6 AH; Lea, 260 Ent; Miller, 380 Ent; Gray, 300 Ent; Van Dyke, 9 AH; <sup>1</sup>Horne, 209 AH; Lipman, 15 Budd; Sharp, 5 Budd; Gericke, 24 Budd; Martin, 15 Budd; Kern, 22 Budd; Hummel, 21 Budd; Albro, 7 Budd; Carey, 1 Conservatory; Christie, 15 FOL; Van Norman, Davidson, Dougherty, Woll, R. F. Miller, Howard, Thompson, Hayes, Flossfeder, Baird, Madison, Rogers, Beckett, Belton, Ingram, Voorhies, Tufts, Denning, Royce, Fletcher, Bisbee, Hendry, University Farm; Webber, Barrett, Quayle, <sup>2</sup>Fawcett, Kelley, Vaile, Reed, Batchelor, Frost, Burger, Swain, Citrus Experiment Station, Riverside.

**Anatomy:** Evans, 16 Anat; Moody, 11 Anat; Corner, 14 Anat; Smith, 3 Anat; Scott, 4 Anat; Hurni, 10 Anat. Fridays, 7 p.m.—16 Anat.

**Anthropology:** Kroeber, Affiliated Colleges; Waterman, Outhwaite, Gifford, 6 Mus. M, 3 p.m.—January 29, February 26, March 26, April 30, 6 Mus.

**Architecture:** Howard, Hays, Cummings, Perry, Leland, de Mari, Arch. M, 8 p.m.—February 5, March 5, April 2, April 30, Arch.

**Astronomy:** Leuschner, 217 Cal; Crawford, 3 O; Einarsson, Alter, Campbell, 10 O. Tu, 4:07 p.m.—January 28, February 20, March 20, April 17, May 8, 2 O.

**Biochemistry and Pharmacology:** Robertson, 210 PL; Marshall, Sundstroem, 4 PL; <sup>2</sup>Bennett, PL; Wasteney, 109 PL.

**Botany:** Setchell, 9 B; Jepson, 6 B; Hall (secretary), 307 HM; Gardner, 7 B; Goodspeed, 4 B. F, 5 p.m.—January 19, March 30, April 27, 308 HM.

**Celtic:** Lyman, 405 W.

**Chemistry:** Lewis, 412 Chem; O'Neill, 221 Chem; Bladale (secretary), 234 Chem; Biddle, 292 Chem; Booth, 280 Chem; Bray, 414 Chem; Hildebrand, 201 Chem; Branch, 249 Chem; Adams, 421 Chem; Argo, 25 Chem; Gibson, 210 Chem. Candidates for teacher's recommendation consult Professor Biddle.

Thursdays, 4:07 p.m.—201 Chem.

**Civil Engineering:** <sup>2</sup>Derleth, 204 CE; Hyde, 101 CE; Foote, 305 CE; Alvarez, 306 CE; Eddy, 304 CE; Langelier, 103 CE; Wiskocil, 106 CE; Hayward, 109 CE; <sup>2</sup>Snyder, 204 CE.

Th, 4:07 p.m.—January 18, February 15, March 15, April 19, May 10, 204 CE.

**Drawing and Art:** Kower, 305 D; Wythe (secretary), 301 D; Judson, Arch; Neuhaus, 200 D; Nahl, 100 D; Brower, 205 D.

F, 4:07 p.m.—January 26, February 28, March 30, April 27; 8:07 p.m.—May 11, 305 D.

**Economics:** Plehn, Daggett (secretary), Hutchinson, <sup>1</sup>Peizotto, Cross, <sup>2</sup>Parker, <sup>1</sup>Lilly, Forbes, <sup>2</sup>Leslie, Shuey, Sinzheimer, Morrow, 24 W; Hatfield, Staehling, 120 W; Brooks, Macaulay, 413 W; Armstrong, 109 Cal; Stebbins, 205 Cal.

**Education:** Lange, Boone, <sup>1</sup>Thomas, Rugh, Kemp, Bolin, 103 Cal; Howerth, 301 Cal.

**English:** Gayley, 407 W; Kurtz (secretary), 410 W; Wells, Bruce, 450 W; Hart, Brodeur, 451 W; Armes, Sanford, 411 W; Bacon, Boyd, 406 W; Lyman, MacMinn, 405 W; Ham, Anderson, 412 W; Cory, Breck, Montgomery, Clark, Burgevin, 410 W. All students, graduate and undergraduate, consult Professor Kurtz.

M, 4:07 p.m.—February 12, March 5, April 2, May 7, 410 W.

**Geography:** 'Holway, 'Fairbanks, 8 Bacon; Buwalda, 98 Bacon; Searls, 7 Bacon.

**Geology and Mineralogy:** Lawson, 107 Bacon; Louderback, 103 Bacon; \*Eakle, Edwards, 6 Bacon; Davis, 2 Bacon.

Wednesdays, 11:07 a.m.—107 Bacon.

**German:** Schilling, 401 W; Weber, Price, 402 W; Paschall (secretary), 400 W; Pinger, Schneider, Tabor, 403 W; Heller, Hamff, 440 W; Scheele, King, Schmidt, 441 W; 'Bell, \*Demeter.

F, 4:07 p.m.—January 19, 26, February 23, April 20, March 16, 24, May 12, 400 W.

**Greek:** Clapp, 435 W; Allen (secretary), Linforth, 434 W; 'Laing, 424 W; 'Shorey; Washburn, 2 Mus.

F, 11:07 a.m.—January 26, February 23, April 20, 437 W.

**History:** 'Stephens, 30 W; Bolton, BL; Teggart, McCormac, Scholz, Paetow (secretary), Morris, 'Hayes, 30 W; 'Chapman, BL.

W, 7:30 p.m.—January 17, 31, February 14, 28, March 14, 28, April 11, 25, May 9, Faculty Club.

**Home Economics:** Patterson, 300 HE; Morgan, 206 HE; Davis, 210 HE; Taylor, 304 HE; Percival, 305 HE.

Tu, 4:15 p.m.—January 30, February 27, March 27, April 24, 300 HE.

**Hygiene:** Legge, Inf; Force, HP; Paroni, Meads, Cunningham, Sherman, Gompertz, Risdon, Inf; Stevens (secretary), HP.

Th, 7:30 p.m.—February 8, April 12, Inf.

**Irrigation:** Etcheverry, Harding, 307 AH. Meets with the Department of Civil Engineering.

**Jurisprudence:** Jones, 212 Boalt; McMurray, \*Boke, 213 Boalt; Kidd, 214 Boalt; Philbrick, Wright, Calkins, 216 Boalt; Elliott, 433 W; Harrison, Tasheira, Matthew, 105 Boalt; Griffiths, 106 Boalt; Lynch (secretary), Phleger, 215 Boalt; Colby, 107 Boalt.

Th, 2:07 p.m.—January 25, February 8, 22, March 8, 22, April 12, 26, May 10, 212 Boalt.

**Latin:** Merrill, 436 W; Richardson, Petersson, 476 W; Nutting, (secretary), Deutsch, 477 W; Price, Washburn, 478 W.

Tu, 4:30 p.m.—January 30, February 27, March 27, April 24, May 8, 437 W.

**Mathematics:** 'Haakell, 421 W; 'Keyser; Noble, Bernstein, 455 W; Edwards, McDonald, 456 W; Lehmer, Putnam, 417 W; Buck, Woods, 416 W; 'Irwin, Wright, 415 W; Williams, Mrs. Andrews, Lawson, Barter, Cheney, Wapple, Taylor, 420 W; Morris, 206 W.

Tuesdays, 2 p.m.—420 W.

**Mechanics:** 'Cory, 33 M; Raber, Tour, 28 M; LeConte, Martin, Vanleer, 27 M; Langille, Woods, 32 M; Pernot, Robinson, Greves, 4 M; Cox, 23 M; George, 24 M. Th, 4:07 p.m.—January 25, February 15, March 29, April 26, 33 M.

**Military Science and Tactics:** Nance, Thorpe, Dickie, Armory.

**Mining:** Lawson, 221 HM; Probert, 132 HM; Hersam (secretary), 204 HM; Morley, 108 HM; U'ren, 222 HM; Weeks, 101 HM.

**Music:** Seeger, 6 Music; Stricklen, 5 Music; Bowden, Steindorff.

**Oriental Languages:** Forke, Kuno, Kiang, 453 W.

M, 12:10 p.m.—February 5, March 5, April 30, 336 W.

**Palaeontology:** Merriam, 204 Bacon; Clark, 203 Bacon.

Tu, 11:30 p.m.—February 6, March 6, April 3, May 1, 204 Bacon.

**Pathology and Bacteriology:** 'Gay, 2 HP; Rusk, 1 HP; Hall, 5 HP; Griffiths, 8 HP; 'Cooke, Rehfsch, U C Medical School, S F; Bradley, 6 HP.

Th, 5 p.m.—January 25, February 22, March 29, April 26, 1 HP.

**Philosophy:** Stratton, 9 P; Rieber, 4 P; Adams (secretary), Lewis, Loewenberg, Pope, 2 P; 'Woodbridge, 414 W; 'Calkins; Brown, 10 P; Bridgman, 3 P.

Th, 12 m.—January 18, February 1, 15, March 1, 15, 29, April 12, 26, Faculty Club.

**Physical Education for Men:** Kleeberger, Magee, Cozens, HG.

Mondays, 1 p.m.—2 HG.

**Physical Education for Women:** Cleveland, 1 H; Elliott, 2 H; Otis, Armour, Lemon, 3 H; Roof, Hagelthorn, 2 H.



**Physics:** Slate, 115 S; Lewis, 307 S; Raymond, 117 S; Minor, 201 S; Hall (secretary), 121 S; Abbott, Koop, Jones, 204 S.

**Physiology:** Maxwell, 202 PL; Burnett, 115 PL; Moore, 205 PL; Wulzen, 204 PL; Larson, Martin, 110 PL.

**Political Science:** Barrows, 432 W; Elliott, 433 W; \*Ehrlich, 475 W; Douglas, 474 W; \*Reed.

Tu, 12 m.—January 16, February 20, March 20, April 17, Faculty Club.

**Public Speaking:** Flaherty, 422 W; von Neumayer, Boas, 423 W; Everts, Allen, 454 W; Bowden, Drury, 462 W; Johnston, 236 W; Hankey, 301 Cal.

W, 3 p.m.—February 21, March 21, April 18, 236 W.

**Romanic Languages:** Schevill, 427 W; \*Chinard, 426 W; Bransby, 320 W; Turner,

Clark, 463 W; Fay, Solomon, 425 W; Magni, Barnier, 472 W; Girard, Goggio, 473 W; Fauchaux, Morley, Rose, Joralemon, Echeverria, Graham, 430 W; Mrs. Cornish (secretary), McGuire, \*Singleton, Tays, 464 W.

W, 4:07 p.m.—January 24, February 7, 21, March 7, 21, April 4, 18, 430 W.

**Sanskrit:** Ryder, 834 W.

**Semitic Languages:** Popper, 15 L; Meyer, 332 W.

**Slavic Languages:** Noyes, 15 L.

**Zoology:** Kofold, 208 E; Ritter, La Jolla; Holmes, 105 E; Daniel, 214 E; \*Long; Gould, 321 E; Barrows (secretary), 213 E; Grinnell, 11 MVZ; Cort, 212 E.

W, 4:07 p.m.—February 7, 21, March 7, 21, April 4, 18, May 2, 214 E.

## STANDING COMMITTEES, ETC., 1916-17

## COMMITTEES OF THE ACADEMIC SENATE

*Admissions:*

Professors Putnam, Thomas, the Recorder (secretary).

*Athletics:*

Professors Lynch, Crawford, Putnam.

*Barbara Weinstock Lecture:*

Professors Plehn, Hutchinson, G. E. Adams.

*Classification and Graduation (College of Commerce):*

Professors Hatfield, Daggett, Plehn, Hutchinson, 'Haskell, Brown, Dr. Calkins.

*Commencement and Other Public Celebrations:*

Professors Richardson, Nance, Allen, Alvarez, Hyde, Neuhaus, Eddy, Popper.

*Commencement Speakers:*

Professors Gayley, Flaherty, Wells, Kidd, Dr. Petersson.

*Council of Agriculture:*

The President of the University, all members of the Department of Agriculture of professorial rank, one representative from each of the departments of the University giving required courses of instruction in the College of Agriculture.

*Council of Engineering and Applied**Chemistry:*

The heads of departments which give prescribed courses in the Colleges of Mechanics, Mining, Civil Engineering, and Chemistry, together with the several professors and instructors actually engaged in giving such prescribed courses. Vice-chairman, Professor Lawson.

*Courses of Instruction:*

Dean of the Faculties, Professors Leuschner, Lawson, Hart, Lange, 'Stephens, Bolton, Schilling, Maxwell, G. N. Lewis, 'Haskell, Merrill, 'Chinard, R. E. Smith, Putnam, Hatfield, G. P. Adams, J. F. Daniel.

*Credentials:*

Professors Noble, Linforth, Minor, Moody, Woods, Pinger, Hutchinson, Dr. Petersson, Mr. Kuno, the Recorder (secretary).

*Disqualified Students:*

Dean of the Faculties, Dean of the Lower Division, the Recorder.

*Editorial Committees:*

Professors Merriam, Stratton, Bolton, Daniel, Noyes, Leuschner, Lipman, Daggett, Evans, Mr. A. H. Allen (secretary).

*Entrance Examinations:*

Professors Washburn, McDonald, Biddle, Linforth, Hutchinson, Putnam.

*Faculty Elections:*

Professors McCormac, Nutting, Burd.

*Frank J. Walton Memorial Loan Fund:*

President Wheeler, Professor Putnam, Mr. Drury.

*Graduate Council:*

The President of the University (chairman), the Dean of the Graduate School (vice-chairman), the Dean of the Faculties, Professors Lang, Stratton, Jones, 'Stephens, J. G. Howard, Merrill, Hart, Schevill, Slate, Merriam, Daggett, Lipman, G. N. Lewis, Hunt, Lawson, Evans, Robertson, 'C. L. Cory, Kofoid, Gay.

*Health:*

Professors Legge, Rusk, Paroni, Hyde.

*Library:*

Professors Lawson, G. P. Adams, 'Stephens, Richardson, Rowell, Leupp, McMurray, Bray, Hart.

*Membership:*

Professors Kower, J. T. Allen, E. P. Lewis (chairman).

*Military and Gymnasium:*

Professors Putnam, Washburn, Kleeberger, Nance, Setchell.

*Music and Drama:*

Professors Armes, O'Neill, Setchell, Kower.

*Non-Residents:*

Professor Kidd, Dr. Calkins.

*Outside Relations:*

Professors Putnam, Washburn, Setchell, Stebbins, Eddy, Dr. Buck, Mrs. Davidson.

*Prizes:*

Professors Wells, Flaherty, 'Stephens, H. E. Cory, Barrows.

*Rhodes Scholarship:*

Professors 'Stephens, Merrill, Scholz.

**Rules and Regulations:**

Professors McMurray, Noyes, <sup>2</sup>Haskell, Lange, Plehn, Lawson, Leuschner, Sutton, Hyde, Burd, and the Dean of the Faculties.

**Schedule of Exercises:**

Professors <sup>2</sup>Haskell, Plehn, Crawford (chairman, first half-year), Minor, Kower, Teggart.

**Schools:**

Professors Thomas, Noble, Paschall, <sup>1</sup>Holway, Morris, Hummel, Biddle, Washburn, Kurtz, Hatfield, Seeger, Herms, Woods.

**Special Students:**

Professors Lipman (chairman), Stebbins, Foote, Goodspeed, Cross.

**Students' Affairs:**

Professors <sup>2</sup>C. L. Cory, Rieber, Jones, Crawford, Putnam.

**Students' English:**

Professors Kurtz, Mason, Merriam, Washburn, Paschall, Woods, Mr. A. E. Anderson (secretary).

**Study-Notes—Public Health:**

Professors Legge, Lucas, Force, Hyde.

**Subject A:**

Professors Paschall, C. I. Lewis, H. M. Hall, Gardner, Dr. Rose, Mr. <sup>1</sup>Bell, Dr. Buck.

**Subject B:**

Professors Richardson, Weber, Bray, Noyes, G. P. Adams, Lipman, <sup>2</sup>Chinard, McDonald, Bolton, Turner, Fay, H. E. Cory.

**Summer Session:**

Professors Hart, Richardson, Leuschner, Bolton, Armes.

**Teachers' Certificates** (sub-committee of the faculty of the School of Education): Professors Richardson, <sup>1</sup>Holway, Rugh, Wells, E. E. Hall.

**Undergraduate Scholarships:**

Professors Price, Daniel, Stebbins, Putnam (consulting, ex officio), Blasdale, Woods, Booth, Mr. Roop.

**University Council:**

President Wheeler, Dr. Aitken, Professors Moffitt, Evans, Suggett, Millberry, Green, Nish, Lemos, Stanton, Lawson, Merriam, Hatfield, Thomas Forsyth Hunt, Leuschner, Barrows, E. P. Lewis, Haskell, Stratton, Hyde (secretary), G. N. Lewis, LeConte, Richardson.

**University Medal:**

Dean of the College of Agriculture, Dean of the College of Mechanics, Dean of the College of Mining, Dean of the College of Civil Engineering, Dean of the College of Chemistry, Dean of the Faculties, Dean of Women, Dean of the Lower Division, Dean of the College of Commerce, Chairman of the Study-Notes Committee of the College of Letters and Science, Professors <sup>2</sup>Haskell, Hildebrand, Lynch, <sup>1</sup>Stephens, Wells.

**University Meetings:**

Mr. Drury, Professors Scholz, Kidd.

**University Welfare:**

Professors Senger, Jones, Brooks, Merrill, Bradley, Rieber, Putnam, Allen.

COMMITTEES OF THE COUNCIL OF AGRICULTURE

**Agricultural Journal:**

Professors Coit, Wickson, Gregg, Weber, Crocheron.

**Courses of Study and Schedule:**

Professors R. E. Smith, Shaw, Davidson.

**Editorial:**

Professors Lipman, Gilmore, Woll.

**Editorial Correspondence Courses:**

Professors Hummel, Herms, Roadhouse.

**Experimental Fertilizer Tests:**

Professors Burd, Coit, Lipman, Gilmore, Webber.

**Graduate Students:**

Professors Lipman, Hummel, Kennedy.

**Library:**

Professors Woll, Hoagland, Mulford, <sup>1</sup>Stubenrauch, Mead.

**Student Employment:**

Professors Morgan, Clarke, Van Norman, heads of the Welfare Committees at Berkeley and Davis.

**Study-Notes:**

Professors Babcock, Coit, Morgan, True, Thos. Forsyth Hunt.

## COMMITTEES OF THE ENGINEERING COUNCIL

*Study-lists:*

1. *Chemistry*—Professors O'Neill, Lewis, Biddle.
2. *Civil Engineering*—Professors Foote, Etcheverry, Eddy.
3. *Mechanics*—Professors Cory and LeConte.

4. *Mining*—Professors Lawson, Hersam, Weeks.

*Engineering Sections:*

LeConte, Weeks, Foote, Kower, Minor.

*Executive:*

Professors Probert, LeConte, Woods, Hyde, Lawson, Hildebrand, E. E. Hall.

## COMMITTEES OF THE FACULTY OF THE COLLEGE OF LETTERS AND SCIENCE

*Classification and Graduation in the Courses in Architecture:*

Professors Hays, Eddy, Mr. Perry.

*Executive:*

Dean Hutchinson, Professors Putnam, Noyes, Linforth, Crawford, Holmes, Patterson, G. P. Adams, Elliott.

*Home Economics:*

Professors Peixotto, Patterson, Stebbins, Hyde, Hays, Jaffa, Neuhaus, A. F. Morgan.

*Honors at Graduation:*

Professors Linforth, Lehmer, Pactow.

*Study-lists:*

Dean of the College of Letters and Science, Professors Lange, Lynch, Maxwell, Raymond, Blasdale, Deutsch, Stebbins, Putnam, Waaburn, Paschall, Hatfield, Bray, Crawford, Mr. Perry, the Recorder (secretary).

## THE CENTRAL COUNCIL OF THE ALUMNI ASSOCIATION, 1916-17

## OFFICERS

Oscar Sutro, B.L. 1894, M.L. 1896, President  
Standard Oil bldg, San Francisco

Wigginton E. Creed, A.B. 1898, First Vice-President  
Balboa bldg, San Francisco

Samuel M. Haskins, A.B. 1893, Second Vice-President  
1111 Merchants National Bank bldg, Los Angeles

Robert G. Sproul, B.S. 1913, Treasurer  
220 California Hall

Harvey Roney, A.B. 1915, Secretary  
114 California Hall

## COUNCILLORS

Matthew C. Lynch, B.L. 1906, J.D. 1908  
215 Boalt Hall

Douglas Brookman, B.L. 1910  
833 Market st, San Francisco

Chaffee E. Hall, B.L. 1910  
14 Sansome st, San Francisco

Frank Otis, A.B. 1873, M.A. 1876  
1203 Merchants' Exchange bldg, San Francisco

Stuart L. Rawlings, B.S. 1899  
169 Santa Rosa av, Oakland

Samuel C. Irving, A.B. 1879  
Mayor's Office, City Hall

Charles W. Merrill, B.S. 1891  
121 Second st, San Francisco

William H. Waste, Ph.B. 1891, LL.B. 1894  
Court House, Oakland

Margaret Hayne, A.B. 1908, M.A. 1909  
2421 Piedmont av, Berkeley

Rose Gardner Marx, A.B. 1911, M.A. 1912  
1019 Shattuck av

EXECUTIVE COMMITTEE OF THE ASSOCIATED STUDENTS, 1916-17

Floyd W. Stewart, '17, President 2426 Virginia st Bkly 8472	Vera L. Christie, '18 2725 Channing way Bkly 7950
Willis G. Witter, '17, Vice-President 2301 Durant av Bkly 180	Anna F. Barrows, '17 2600 Etna st Bkly 7229
Charles F. Harper, '18, Secretary 2610 Durant av Bkly 7804	John A. Stroud, Jr., '13, Graduate Manager Superintendent's Building Local 110
Joseph N. Owen, '17 2200 Piedmont av Bkly 6760	Matthew C. Lynch, '06, Faculty Represent- ative
George W. Clark, '17 2646 Dwight way Bkly 4104	215 Boalt Hall Local 69
	Chaffee E. Hall, '10, Alumni Representative 1717 Linden av, O Lksd 1285

CLASS OFFICERS, JANUARY-MAY, 1917

SENIOR CLASS (1917)

President, George W. Cohen 2311 Bowditch st Bkly 7037W
Vice-President, Margaret Marchant 449 Fifty-ninth st, O Pied 7288W
Secretary, Charles E. Rhein 5184 Miles av, O Pied 2890
Treasurer, Frank T. Elliott 2620 Bancroft way Bkly 888

JUNIOR CLASS (1918)

President, Ruth B. Walker 2415 Dwight way Bkly 9025W
Vice-President, Donald C. Bull 1716 LeRoy av Bkly 4811
Secretary, Fuller Clarkson 2414 Channing way Bkly 244J
Treasurer, Raymond R. Brown 2521 Channing way Bkly 5831

SOPHOMORE CLASS (1919)

President, Earl A. Davis 2627 Ridge rd Bkly 2541
Vice-President, Helen MacLise 383 Vernon st, O Oakd 1623
Secretary, Marc T. Morrissey 2600 Durant av Bkly 2593

FRESHMAN CLASS (1920)

President, Gordon L. Keith 2427 Durant av Bkly 4521J
Secretary, Walter U. Friedrichs 234 Liberty st, S F Man 5906
Treasurer, Kenneth Reid 5806 Dover st, O

ASSOCIATED WOMEN STUDENTS, 1916-17

OFFICERS

President, Leila Berry, '17 2700 Benvenue av Bkly 26W
Vice-President, Bertha Galloway, '17 1500 Euclid av Bkly 4702
Secretary, Esther Sinclair, '18 2732 Channing way Bkly 9317
Treasurer, Marion Brown, '18 2710 Channing way Bkly 9520
Athletic Manager, Alberta McNeely, '17 2713 Haate st Bkly 2148

EXECUTIVE COMMITTEE

The Officers of the Association and Miss Lucy Ward Stebbins, Dean of Women 2731 Durant av Bkly 7386
Anna Barrows, '17, Representative on A. S. U. C. Executive Committee 2600 Etna st Bkly 7229
Dorothy Wetmore, Parthenaia Manager 2323 Hearst av Bkly 1407
Vera L. Christie, '18, Representative on A. S. U. C. Executive Committee 2725 Channing way Bkly 7950
Frances L. Brown, '17, Woman's Editor <i>Daily Californian</i> 2821 Bancroft way Bkly 1765

## CLUB HOUSE LOAN FUND COMMITTEE

Mrs. May L. Cheney, Chairman  
203 California Hall

Professor James T. Allen, Secretary-  
Treasurer  
37 Mosswood rd

Professor Lucy W. Stebbins  
205 California Hall

Professor Thomas M. Putnam  
207 California Hall

Professor Wm. Carey Jones  
212 Boalt Hall

Professor George C. Edwards  
2546 Dana st

Dr. Mary B. Ritter  
La Jolla

Professor J. B. Peixotto  
Cloyne Court

Mrs. Benj. Ide Wheeler  
President's House, University Grounds

Mrs. L. J. Richardson  
2415 College av

Miss Harriet E. Whirlow  
2526 Hilgard av

Mrs. A. P. Black  
2915 Fillmore st, San Francisco

Mrs. R. S. Holway  
Euclid apts

# OFFICERS AND ASSISTANTS

†Abbott, R. B., Instr. in Physics  
207 S  
1808 Cedar st Bkly 2084

Abbott, R. C., Asst. in Orthopedic Surgery (M)  
135 Stockton st, S F Sutr 2288

Adams, E. Q., Instr. in Chemistry  
421 Chem-daily exc. S, 9-10  
2642 Bancroft way Bkly 653

†Adams, F., Prof. of Irrigation Investigations  
20 AH  
1811 Oakland av, P Pied 7057

†Adams, G. P., Assoc. Prof. of Philosophy  
2 P-M W, 1:30-2; Th, 11-11:30  
Southdown av and Montrose st Bkly 7012W

†Adams, R. L., Asst. Prof. of Agronomy  
11 Budd  
6220 Hilllegass av, O Pied 5879W

†Aitken, R. G., Astronomer (LO)  
Mt. Hamilton

Akers, Miss M. A., Reader in Mathematics  
2482 Virginia st Bkly 4179

Albright, G. L., Native Sons Travelling Fellow in History (died December 15, 1916)

†Albro, F. W., Asst. in Nutrition  
8 Budd  
1632 McGee av

Aljeta, J. W., Asst. to the Supt. of Grounds and Buildings  
822 Thirty-third st, O Pied 5059W

†Allen, A. H., Manager of the University Press  
University Press  
2317 Prospect st Bkly 973

Allen, Miss A. H., Instr. in Public Speaking  
454 W-F, 10-11  
2237 Ellsworth st

†Allen, H. W., Asst. Clinical Prof. of Medicine (M)  
240 Stockton st, S F Dgls 3600

†Allen, J. T., Assoc. Prof. of Greek  
434 W  
37 Mosswood rd Bkly 1209W

†Alter, D., Instr. in Astronomy  
10 O  
1408 Henry st Bkly 1192J

Alter, Miss M., Nurse  
Infirmary Local 15

Alvarez, A. C., Asst. Prof. of Civil Engineering  
306 CE-Tu Th, 3-4  
1909 Dwight way Bkly 5856W

†Alvarez, W. C., Asst. in Research Medicine (M) (HF)  
126 Stockton st, S F Sutr 3428

†Amundsen, E. O., Asst. in Agr. Extension  
East Auburn

†Anderson, A. E., Teaching Fellow and Sec. of Committee on Students' English  
412 W  
2322 Cedar st Bkly 2048

Anderson, Miss E., Life Guard at Hearst Swimming Pool  
2019 Hearst av Bkly 7815W

Anderson, Miss F. E., Stenographer in President's Office  
4610 Brookdale av, O

Anderson, H. H., Asst. in Physics  
2628 Durant av Bkly 4772

†Andrews, Mrs. A. D. B., Asst. in Mathematics  
420 W-daily, 11-11:25  
2537 Fulton st Bkly 3055

†Andrews, C. W., Special Asst. in Wrestling  
4 HG-M Tu Th F, 10-10:15, 2-2:15  
2240 McKinley av Bkly 1412

Appleton, Miss V. B., Instr. in Pediatrics (M)  
191 Frederick st, S F Park 2060

†Argo, W. L., Instr. in Chemistry  
25 Chem-Tu Th, 3-4  
1545A Euclid av Bkly 5086J

Armes, W. D., Assoc. Prof. of American Literature and Chairman of the Musical and Dramatic Committee  
411 W  
Faculty Club Local 48 or Bkly 2855

- Armour, Miss M. J., Instr. in Physical Education  
8 H-M, 10-11; W, 11-12  
1712 Euclid av Bkly 2015
- †Armstrong, J. E., Instr. in Stenography and Typewriting  
109 Cal-M Tu Th F, 4:30-5  
6416 Regent st, O Pied 6585J
- Arnold, W. H., Instr. in Chemistry (FS)  
University Farm, Davis
- †Arntzen, V., Expert Mechanic in Civil Engineering Lab.  
2916 Telegraph av Bkly 242
- Ash, Miss R. L., Instr. in Pediatrics (M)  
240 Stockton st, S F Grfd 341
- Austin, R., Clerk, Dept. Agriculture  
University Farm, Davis
- Baade, H. J., Instr. in Agr. Extension  
Chamber of Commerce, Napa
- †Babcock, E. B., Prof. of Genetics  
" 100 AH-M Tu, 11-12, 1-2  
1540 La Loma av Bkly 4519
- †Bachmann, H., Astronomical Instrument-maker (LO)  
Mt. Hamilton
- †Bacon, L., Instr. in English  
406 W-S, 9-11  
2247 Piedmont av Bkly 6398
- Bailey, Miss A., Clerk, Dept. Agriculture  
1511 Edith st Bkly 2270W
- Bair, W. H., Asst. in Physics  
2248 Telegraph av Bkly 9011
- †Baird, H. S., Instr. in Dairy Industry  
University Farm, Davis
- Baker, Miss F. M., Clerical Asst. in Library  
2749 Dwight way Bkly 204
- Balderson, G., Technician, Dept. Pathology (M)  
184 Grattan st, S F Park 3613
- Balderston, Miss J., Stenographer, Dept. Agriculture  
2329 Channing way Bkly 4905W
- Baldwin, W. I., Instr. in Orthopedic Surgery (M)  
135 Stockton st, S F Sutter 2288
- †Ballentine, J. A., Asst. Prof. of Law (H)  
585 Monadnock bldg, S F Krny 621
- †Barnes, G. H., Foreman, Dept. Agriculture  
University Farm, Davis
- ††Barnes, W. C., Asst. in History (resigned December 31, 1916)  
2239 Parker st Bkly 2495W
- Barnett, J. W., Storekeeper, Comptroller's Office  
1144 Clay st, S F Frkn 6512
- †Barney, Mrs. E. L., Asst. in Surgery (M)  
2711 Dana st Bkly 3853W
- †Barnhart, P. S., Collector and Curator.  
Scripps Institution for Biological Research  
La Jolla
- †Barnier, L., Instr. in French  
472 W  
2118½ Delaware st Bkly 5669J
- †Barovetto, G., Field Asst. in Viticulture  
University Farm, Davis
- †Barrere, R. B., Inventory Clerk, Comptroller's Office  
1523 Scenic av
- †Barrett, J. T., Prof. of Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture  
Citrus Experiment Station, Riverside
- †Barrows, A. L., Instr. in Zoology  
218 E-daily exc. F, 11  
1809 Spruce st Bkly 1006J
- †Barrows, D. P., Prof. of Political Science and Dean of the Faculties  
432 W-daily, 10; 217 Cal-daily, 11-12  
2600 Etna st Bkly 7229
- Barter, J. D., Teaching Fellow in Mathematics  
420 W  
2705 Hearst av Bkly 745W
- †Bartlett, L., Lectr. in Dental Jurisprudence (D)  
1700 Claus Spreckels bldg, S F Krny 5750
- †Batchelor, L. D., Assoc. Prof. of Plant Breeding in the Citrus Experiment Station and Graduate School of Tropical Agriculture  
1400 West Twelfth st, Riverside
- Bates, Miss E., Stenographer, Dept. Agriculture  
University Farm, Davis
- †Bates, Mrs. R., Reader and Secretary.  
Dept. Music  
2500 Bancroft way Bkly 1848
- Bates, W. E., Lectr. in Hygiene (FS)  
University Farm, Davis
- †Beach, J. R., Asst. in Veterinary Science  
University Farm, Davis
- †Bean, G. L., Prof. of Dental Porcelain (D)  
350 Post st, S F Sutr 389



- †Beckett, S. H., Asst. Prof. of Irrigation Practice  
University Farm, Davis  
†Behlow, W. W., Voluntary Asst. in Medicine (M)  
233 Post st, S F                      Sutr 4620
- †Bell, C. H., Instr. in German  
2249 College av                      Bkly 7436W
- †Bell, G. L., Asst. Prof. of Law (H)  
2118 Marin av                      Bkly 2063W
- Bell, G. W., Asst. Prof. of Law. (H)  
722 Kohl bldg, S F                      Sutter 5881
- Bell, Miss J. F., Secretary in Dept. Pediatrics (M)  
1233 Arguello blvd, S F                      Snst 1982
- †Belton, H. L., Instr. in Shopwork  
University Farm, Davis
- †Benedict, H. H., Asst. Accountant in Comptroller's Office  
5821 Ocean View dr, O                      Pied 5046J
- Benjamin, Miss J., Record Clerk, Univ. Extension  
2023 Channing way                      Bkly 7556
- \*Bennett, C. B., Instr. in Biochemistry (M)  
814 Cole st, S F                      Mrkt 7736
- Bennett, Miss S., Senior Asst. in the Library  
2611 Durant av                      Bkly 4525W
- Bernstein, B. A., Instr. in Mathematics  
455 W-Tu, 10; W, 11  
2131 Haste st                      Bkly 3401
- Berry, S. S., Research Zoologist, Scripps Institution for Biological Research  
745 West Highland av, Redlands
- †Bertram, Mrs. F. E., Stenographer in Dept. Agriculture  
4138 Terrace st, O
- Bertron, Miss E. C., Stenographer in Dept. Agriculture  
2224 Dana st                      Bkly 6656
- †Best, E. J., Asst in Medicine (M)  
209 Post st, S F                      Sutr 290
- †Bettencourt, F. C., Asst. in Clinical Prosthetic Dentistry (D)  
First and Parnassus avs, S F
- Betts, I. H., Asst. in Surgery (resident S. F. Hospital) (M)  
S F Hospital, S F                      Man 827
- †Biddle, H. C., Asst. Prof. of Chemistry  
229 Chem-M W F, 2-8; Tu Th, 9-10  
University Cottage No. 1                      Bkly 4764W
- †Billings, H. E., Instr. in Agricultural Chemistry (resigned Nov. 30, 1916)  
1801 Carlton st                      Bkly 8073
- †Bina, R., Asst. in Medicine (M)  
350 Post st, S F                      Krny 296
- †Bioletti, F. T., Prof. of Viticulture and Enology  
103 AH-M W F, 10-11  
Walnut Creek
- Birch, F. W., Instr. in Surgery (M)  
St. Luke's Hospital, S F                      Man 8600
- †Bisbee, E. B., Asst. in Dairy Industry  
University Farm, Davis
- Bisson, C. S., Asst. in Chemistry  
1734 Channing way                      Bkly 1688W
- †Bixby, Mrs. D. A., Stenographer, Dept. Agriculture  
924 Tulare st
- †Black, P. W., Asst. in Economics  
2508 Vine st                      Bkly 2923J
- †Blake, W. F., Instr. in Ophthalmology (M)  
516 Sutter st, S F                      Grfd 229
- †Blasdale, W. C., Assoc. Prof. of Chemistry  
234 Chem-daily, exc. S, 9-10  
2514 College av                      Bkly 5146J
- Blewett, G. A., Asst. in Swimming  
HG-M Tu Th, 5-6  
2511 Channing way                      Bkly 3121J
- †Bliss, H. H., Instr. in Mechanical Engineering, Univ. Extension  
3010 Colby st                      Bkly 7136W
- Boas, G., Instr. in Public Speaking  
423 W-daily, 11  
2704 Virginia st                      Bkly 4695W
- Boeck, W. C., Asst. in Zoology  
2611 Durant av                      Bkly 4525W
- †Boericke, W., Clinical Prof. of Homeopathic Materia Medica (M)  
391 Sutter st, S F                      Dgls 4163
- \*†Boke, G. H., Prof. of Law  
Carmel
- †Bolin, J. S., Instr. in Education  
103 Cal-daily, 11-12  
2805 Fulton st                      Bkly 2186
- †Bolton, H. E., Curator of the Bancroft Library; Prof. of American History  
BL-daily, 11-12, 4:30-6  
1526 Scenic av                      Bkly 5764
- Bomgardner, Miss E. M., Junior Asst. in the Library  
2505 College av                      Bkly 808
- †Boone, R. G., Prof. of Education  
103 Cal-F, 9-10  
2831 Benvenue av                      Bkly 6848
- †Booth, E., Asst. Prof. of Chemistry  
230 Chem  
2810 Woolsey st                      Bkly 8104

- Boothe, Miss G., Reader in German  
1637 Oxford st Bkly 2087J
- Borgstrom, P., Asst. in Chemistry  
2001 Allston way Bkly 6710
- Botsford, Miss M. E., Asst. in Surgery (M)  
807 Francisco st, S F Frkn 3370
- †Bourne, F. E., Helper in Geology and Mineralogy  
2337 Blake st
- †Bouton, C. M., Asst. in Chemistry  
2803a Parker st
- Howcock, A., Plant Asst., Dept. Agriculture  
University Farm, Davis
- Bowden, G., Lectr. in Voice Culture  
200 HM  
795 Pine st, S F Grfd 2249
- Boyd, A., Instr. in English  
406 W-Tu, 11-12; F, 2-5  
4156 Terrace st, O Pied 4666W
- †Bradley, C. B., Prof. of Rhetoric, Emeritus  
2639 Durant av Bkly 4126W
- Bradlev, Miss D. E., Asst. in Pathology and Bacteriology (M)  
6 HP-daily, 9-12  
1606 Morton st, A
- Brady, Miss E. G., Stenographer in Division of Agricultural Extension  
1712 Jayne st Bkly 4140W
- Brainard, H., Attendant in Library  
2609 Grove st Bkly 826
- †Branch, G. E. K., Instr. in Chemistry  
249 Chem-Tu Th, 10-12  
1530A Hawthorne ter
- Branch, Miss I. M., Clerk in Infirmary  
2417 Ward st Bkly 2879W
- †Brandee, T. S., Hon. Curator in the Herbarium  
308 HM Local 34
- Brandt, Miss C. R., Senior Asst. in Library  
2316 Hilgard av Bkly 2334
- Brandt, Miss H. A., Clerical Asst. in Library  
2316 Hilgard av Bkly 2334
- Bransby, C., Asst. Prof. of Spanish  
320 W  
2636 Channing way Bkly 861
- †Bray, W. C., Assoc. Prof. of Chemistry  
414 Chem-M Tu W Th S, 11-12  
2708 Virginia st Bkly 2259W
- Breck, Miss E. J., Lectr. in the Teaching of English  
302 W-Tu Th, 2:45-3  
3003 Summit st, O Oakd 2802
- †Breitstein, L. I., Instr. in Obstetrics and Gynecology (M)  
350 Post st, S F Dgls 404
- †Bricca, C. R., Voluntary Asst. in Laryngology, Otology and Rhinology (M)  
166 Geary st, S F Dgls 2297
- Bridgman, Miss O. L., Instr. in Mental Abnormalities of Childhood; Instr. in Pediatrics (M)  
3 P  
1233 First av, S F Snt 2371
- †Briggs, L. H., Instr. in Medicine (M)  
240 Stockton st, S F Dgls 3600
- Briggs, Miss S. M., Nurse (M)  
U C Hospital, S F Snt 1155
- †Brighton, T. B., Asst. in Chemistry  
1938 ½ Delaware st
- †Brodeur, A. G., Instr. in English Philology  
451 W-F, 3-5  
2617 Virginia st Bkly 1709J
- †Brooks, C. E., Asst. Prof. of Insurance  
413 W-Tu Th, 10:30-11  
2563 Martinez av Bkly 9132
- †Brooks, J. S., Asst. in Homeopathic Materia Medica (M)  
135 Stockton st, S F Dgls 2302
- Broughton, G. H., Asst. in Chemistry  
32 Chem Local 58
- †Brower, R. J., Instr. in Drawing; Reader in Instrumental Drawing, University Extension  
205 D  
2232 Haate st Bkly 149W
- Brown, Miss A. E., Librarian, Univ. Farm School  
University Farm, Davis
- Brown, Miss O. G., Nurse  
Infirmary Local 15
- Brown, Miss E. L., Lab. Asst. in Household Science  
2238 Ellsworth st Bkly 295W
- †Brown, W., Asst. Prof. of Psychology  
10 P-M Tu W Th, 10:30-11:30  
2553 Benvenue av Bkly 6410J
- Brown, W. B., Asst. in Physics  
479 Thirty-fourth st, O Pied 3384W
- Browning, Miss E. M., Junior Asst. in Library  
2609 Hillegass av Bkly 808J

- †Bruce, D., Asst. Prof. of Forestry  
F-M Tu W, 10-11  
1528 Spring st Bkly 5411J
- Bruce, H. L., Asst. Prof. of English  
Composition  
450 W-M W F, 4  
2529 Hilgard av Bkly 2261
- Bruckman, Miss H., Technician in Medi-  
cal School (M)  
1398 Fifth av, S F
- †Bruhns, H. J., Clinical Instr. in Opera-  
tive Dentistry (D)  
135 Stockton st, S F Krny 2468
- †Brunn, H., Asst. Clinical Prof. of Sur-  
gery (M)  
Butler bldg, S F Sutter 531
- †Bryant, H. C., Economic Ornithologist,  
Calif. Museum of Vertebrate Zoology  
5 MVZ-M W F, 10-11  
2523 Hill court Bkly 5086W
- Bryant, M. N., Asst. in Testing Labor-  
atory, Dept. Civil Engineering  
2305 Bancroft way Bkly 7461
- †Bryant, V. C., Asst. Prof. of Agr. Extension  
2 AH  
3011 Hillegass av Bkly 4257W
- †Bucher, Mrs. E. S., Senior Asst. in Li-  
brary  
2237 Atherton st Bkly 4968
- Buck, T., Instr. in Mathematics  
416 W-M W F, 10, 8; Tu Th, 9  
Faculty Club Local 28 or Bkly 2855
- †Bumstead, F. M., Senior Asst. in Library  
2529 Hilgard av Bkly 2261
- Bunnell, Mrs. D. L., Librarian, Dept.  
Agriculture  
2500 Bancroft way Bkly 6081J
- †Bunnell, G. W., Prof. of Greek, Emeritus  
2901 Telegraph av, O Oakd 5150
- †Burd, J. S., Prof. of Agricultural Chem-  
istry  
5 FCL-daily, 10-11  
2711 Virginia st Bkly 8429W
- Burger, O. F., Instr. in Plant Pathology  
in the Grad. School of Tropical Agri-  
culture  
Riverside
- Burgevin, L. G., Teaching Fellow in Eng-  
lish  
410 W-M W F, 9  
2711 Virginia st Bkly 5108J
- †Burnett, T. C., Asst. Prof. of Physiology  
(M)  
115 PL-daily exc. S, 2-4  
Hotel Shattuck Bkly 7300
- †Burnham, G. B., Asst. in Physics  
1638 Josephine st Bkly 8074
- †Burrill, Mrs. J. B., Clerk, Dept. Physical  
Education for Women  
2670 Parker st Bkly 309
- Butterfield, H. M., Asst. in Agr. Education  
2201 Ellsworth st Bkly 6037W
- Butts, Miss E. M., Stenographer, Dept.  
Agriculture  
Citrus Experiment Station, Riverside
- Buwalda, J. P., Instr. in Geography  
9B Bacon-M Tu W F, 2-3; Th, 3-4  
Faculty Club Local 28 or Bkly 2865
- †Cahery, J., Armorer  
2283 Bancroft way Bkly 4106
- Cairns, Miss L., Asst. in Hygiene  
2729 Elmwood av Bkly 507
- Calder, Mrs. E. M., Nurse  
Infirmary Local 15
- †Calkins, J. U., Jr., Lectr. in Commercial  
Law  
216 Boalt-M Tu W Th, 9-9:15  
2807 Piedmont av
- †Calkins, Miss M. W., Lectr. in Philosophy  
on the Mills Foundation (to December  
31, 1916)  
Wellesley, Mass.
- Campbell, W., Teaching Fellow in Astron-  
omy  
10 O-daily exc. Th, 11-12  
2401 LeConte av Bkly 1279W
- †Campbell, W. W., Director of the Lick  
Observatory and Astronomer (LO)  
Mt. Hamilton
- Carey, D. H., Instr. in Floriculture and  
Supt. of Greenhouses and Gardens  
Conservatory-daily, 11-12  
2400 Durant av Bkly 7954
- †Carey, H. B., Prof. of Botany, Materia  
Medica, and Physiology (Ph) and  
Instr. in Anatomy, Histology, Materia  
Medica, and Therapeutics (D)  
1294 Ninth av, S F Snt 1014
- Carson, Miss R. E., Asst. Technician,  
Dept. Pathology (M)  
3229 E Fourteenth st, O
- Carter, A. C. A., Clerk in Office of Supt.  
of Grounds and Buildings  
270 Wayne st, O
- †Catton, J. H., Asst. in Medicine (M)  
(resigned Dec. 1, 1916)  
177 Post st, S F Sutr 4939
- †Caulkins, A. L., Asst. in Chemistry  
1507 Henry st

- Chamberlain, T. G., Teaching Fellow in Political Science  
2522 Ridge rd Bkly 5950
- †Chapman, C. E., Asst. Prof. of California History  
BL-daily, 9-10  
2423 Hilgard av Bkly 1700W
- Cheek, Miss S. W., Nurse  
Infirmary Local 15
- †Cheney, Mrs. M. L., Appointment Secretary  
m 203 Cal  
2241 College av Bkly 1189W
- Chenev, W. F., Jr., Teaching Fellow in Mathematics  
301 W-Tu Th, 12  
Faculty Club Local 28 or Bkly 2855
- †Chinard, C. G., Prof. of French  
428 W-M W, 9-11  
2805 Kelsey st Bkly 5343W
- Chittenden, Mrs. A. B., Asst. Prof. of Drawing (A)  
2201 California st, S F West 4898
- †Christiansen, A. H., Instr. in Agr. Extension  
319 G st, Eureka
- Christiansen, H. B., Asst. in Laryngology, Otolary and Rhinology (M)  
185 Stockton st, S F Sutter 5114
- †Christie, A. W., Asst. in Agricultural Chemistry  
2029 Berkeley way Bkly 6321W
- †Clapp, E. B., Prof. of the Greek Language and Literature  
435 W  
2636 Dwight way
- †Clark, B. L., Instr. in Palaeontology  
203 Bacon-M Tu Th F, 9-12  
2318 Hilgard av
- Clark, G. W., Asst. in Recreation  
2 HG-F, 1-2; W, 4-5  
2646 Dwight way Bkly 4104
- †Clark, J. T., Asst. Prof. of Romanic Philology  
463 W-M W F, 10  
2214 Russell st Bkly 218
- Clark, L. B., Mechanic in Electrical Laboratory  
1417 Henry st Bkly 7644W
- Clark, Miss L. D., Instr. in Agricultural Extension  
2110 Hearst av Bkly 1908
- Clark, R. H., Teaching Fellow in English  
410 W-M, 11-12  
11 El Camino Real Bkly 6798
- Clark, Miss R. H., Order Clerk in Comptroller's Office  
6532 Dana st, O Oakd 7763
- †Clark, T. G., Library Messenger  
2315 Carlton st Bkly 1578
- †Clarke, W. T., Prof. of Agricultural Extension and Supt. of Farmers' Institutes  
2 AH  
2317 LeConte av Bkly 1930
- †Clausen, R. E., Asst. Prof. of Genetics  
100 AH  
212 Treehaven apts Bkly 8495W
- Cleve, W. G., Technical Asst., Dept. Biochemistry (M)  
3034 Tremont st
- Cleveland, Miss M., Director of Women's Gymnasium and Asst. Prof. of Physical Education  
1 H-daily exc. S, 10-11, 1:30-2:30  
2618½ College av Bkly 4211W
- Coats, Miss E. A., Secretary to the Dept. of Obstetrics and Gynecology (M)  
1343 Grove st Bkly 9381
- Cochran, Miss V. L., Nurse  
Infirmary Local 15
- Cogorno, Miss R., Stenographer, University Extension  
841 Magnolia st, O Oakd 5286
- †Coit, J. E., Prof. of Citriculture  
107 AH-daily, 9-12  
2500 Durant av Bkly 9004J
- †Colby, Mrs. I. F., Senior Asst. in Library  
2314 Haste st Bkly 4026
- †Colby, W. E., Lectr. on Law of Mines and Water  
107 Boalt  
m 2901 Channing way Bkly 1773
- Cole, Miss A. M., Senior Asst. in Library  
2314 Haste st Bkly 4026
- Cole, C. B., Asst. in Track Athletics  
HG  
2601 Durant av Bkly 23
- †Coleman, G. A., Instr. in Entomology and Curator of the Agricultural Museum  
6 AH-daily, exc. S, 9-12  
924 Spruce st Bkly 7732W
- †Collins, H. H., Research Asst., Scripps Institution for Biological Research  
La Jolla
- Compton, Miss R. B., Junior Asst. in Library  
2736 Haste st Bkly 8680
- †Condit, I. J., Asst. Prof. of Citriculture  
107 AH-M W, 9-12  
908 Indian Rock av Bkly 7646W

- Conger, Miss H. M., Stenographer in  
Comptroller's office  
1717 Cedar st Bkly 4228
- †Conner, C. M., Instr. in Agr. Extension  
P O Box 877, Modesto
- Cook, J. W., Asst. in Physics  
2511 Dwight way Bkly 7079
- †Cooke, J. V., Asst. Prof. of Pathology  
(D) (M)  
289 Edgewood av, S F Park 5312
- Coombs, Miss A. M., Clerical Asst. in Li-  
brary  
2521 Dana st Bkly 3037
- Coon, R. H., Asst. in Physics  
2123 Kittredge st Bkly 8765
- †Cooper, H. N., Curator, Dept. Chemistry  
274 Chem  
1607 Milvia st
- †Corner, G. W., Asst. Prof. of Anatomy (M)  
14 Anat-M Tu Th F, 2-5  
49 Canyon rd Bkly 5799
- Cornish, Mrs. B. Q., Asst. in Spanish  
464 W-daily, 10  
2005 Vine st Bkly 4434
- †Cort, W. W., Asst. Prof. of Zoology  
214 E-M W, 10-11  
2520 Ridge rd Bkly 7869J
- †Cory, C. L., John W. Mackay, Jr. Prof.  
of Electrical Engineering, Consulting  
Elec. Lighting and Heating Engi-  
neer, and Dean of the College of  
Mechanics  
33 M-M W F, 9-12; Tu Th, 12-12:30  
2438 Warring st Bkly 2641
- Cory, H. E., Asst. Prof. of English  
410 W-Tu Th S, 10-11  
2558 Buena Vista way Bkly 4014
- Coulter, Miss E. M., Reference Librarian  
Euclid apts Bkly 1834W
- †Cox, G. E., Asst. in Mechanics and Fore-  
man of Woodwork  
23 M-daily, exc. S, 9-4; S, 8-11  
5775 Shafter av, O Pied 8732J
- †Cozens, F. W., Instr. in Physical Educa-  
tion  
1 HG-M F, 1-2; Tu Th, 11-12; W, 10-  
12  
2523 Virginia st, Apt B Bkly 3531J
- Cozens, H. H., Secretary, Dept. Educa-  
tion  
2239 Blake st Bkly 3184
- †Crandall, W. C., Master of the *Alexander*  
*Agassiz* and Business Agent of the  
Scripps Institution for Biological Re-  
search  
La Jolla
- †Crawford, R. T., Assoc. Prof. of Practical  
Astronomy  
3 O-Tu S, 10; M W, 11; M W F, 9:30-  
10  
2740 Hillegass av Bkly 4780W
- †Crinnion, G. J., Asst. to Purchasing  
Agent, Comptroller's Office  
1218 Delaware st Bkly 8556
- Criswell, Miss L., Senior Asst. in Library  
2542 Durant av Bkly 3878
- Crocheron, B. H., Assoc. Prof. of Agri-  
cultural Extension  
4 AH  
37 Euclid apts Bkly 6058W
- †Cross, I. B., Asst. Prof. of Economics on  
the Flood Foundation  
23 W-M W, 11; W, 8:30  
1418 LeRoy av Bkly 4157
- Cruess, W. V., Asst. Prof. of Zymology  
8 FCL-M W F, 1-4  
1614 Bonita av
- Crump, Miss N., General Organizer and  
Secretary, Bureau of Class Instruc-  
tion, University Extension  
301 Cal  
2525 Hearst av Bkly 7346
- †Cumming, J. G., Director, Bureau of Com-  
municable Diseases; Asst. Clinical  
Prof. of Preventive Medicine and  
Hygiene (M)  
HP  
2318 Telegraph av Bkly 5964
- Cummings, Miss G. M., Clerk in Comp-  
troller's Office  
2333 Channing way Bkly 7850
- †Cummings, M. E., Instructor in Modeling  
Arch-Tu F, 8-11  
3966 Clay st, S F Pac 1715
- †Cummings, W. J., Glassblower, Dept.  
Chemistry  
2134 Prince st Bkly 5379J
- †Cummins, A. B., Lab. Asst. in Chemistry,  
Dept. Agriculture  
Citrus Experiment Station, Riverside
- Cunningham, Miss R. L., Instr. in Hy-  
giene and Infirmary Physician  
Inf  
2536 College av Bkly 1974
- †Curtis, H. D., Astronomer (LO)  
Mt. Hamilton
- †Daggett, S., Assoc. Prof. of Railway Eco-  
nomics on the Flood Foundation  
24 W-Tu Th, 3; M W F, 4  
1427 Hawthorne ter Bkly 7530
- Dale, Miss G., Proofreader, Printing Office  
1374 Grove st, S F West 6319

- Dalton, Mrs. E. W., Secretary and Stenographer (HF)  
1230 Arguello blvd, S F Snst 1827
- †D'Ancona, A. A., Lectr. in Forensic Medicine (M)  
862 Shrader st, S F Mrkt 5967
- †Daniel, J. F., Asst. Prof. of Zoology  
214 E-daily, 11  
1421 Hawthorne ter Bkly 3827
- Daniella, N. T., Helper in Dept. Physiology (M)  
2511 Prince st Bkly 7335
- †Davidson, J. B., Prof. of Agricultural Engineering  
University Farm, Davis.
- Davidson, Mrs. M. B., Asst. Dean of Women  
205 Cal-M W F, 9-12, 2-4; Tu Th, 2-4  
1712 Euclid av Bkly 2015
- Davidson, Miss P., Asst. in Zoology  
2420 College av Bkly 8891
- Davis, Miss C. L., Asst. in Recorder's Office  
2500 Bancroft way Bkly 1848
- †Davis, E. F., Instr. in Mineralogy and Geology  
2 Bacon-daily, 10  
1807 Francisco st
- \*†Davis, I. F., Asst. in Agr. Extension  
2520 Virginia st Bkly 2608
- Davis, Miss J. E., Asst. Prof. of Household Science  
210 HE-Tu Th, 10-11  
2525 Durant av Bkly 2169
- Davis, Miss K. M., Infant Welfare Nurse (M)  
1091 Bush st, S F Frkn 5041
- †Dean, J. A., Senior Asst. in Library  
2518 Ellsworth st
- Dean, W. C., Asst. in Soil Technology  
2436 Ninth av, O Mer 1465
- Delprat, Miss M. J. A. T., Asst. in Pharmacology (M)  
2827 Bancroft way Bkly 7712W
- †de Mari, V., Instr. in Water Coloring Arch-Th, 2  
251 Post st, S F Krny 3829
- \*†Demeter, L. J., Asst. Prof. of German  
Denning, S. L., Instr. in Dairy Husbandry  
University Farm, Davis
- †Denny, J. A., Foreman in Cereal Work  
Box 224, Davis
- †de Ong, E. R., Asst. in Entomology  
University Farm, Davis
- \*†Derleth, C. Jr., Prof. of Civil Engineering and Dean of the College of Civil Engineering  
2834 Webster st Bkly 293
- †Deutch, M. E., Asst. Prof. of Latin  
477 W-Tu Th S, 9-9:15; M W F, 10-10:15  
1630 LeRoy av Bkly 7126
- †Dickie, G. E., Instr. in Military Science and Tactics  
328 Warwick av, O Oakd 6365
- Dickson, Miss N. M., Asst. in Public Speaking  
2623 LeConte av Bkly 7039
- †Dixon, J., Asst. Curator of Mammals, California Museum of Vertebrate Zoology  
2226A Chapel st
- Dod, S. L., Instr. in Dental Pathology and Therapeutics (D)  
135 Stockton st, S F Dgh 2338
- Dolan, Miss A., Stenographer, Dept. Agriculture  
668 Alcatraz av, O Pied 5602
- Dore, W. H., Asst. Chemist in Fertilizer Control  
1811 Stuart st Bkly 2732
- Dornin, Miss M., Clerical Asst. in Library  
2248 Stuart st Bkly 3588
- Dorton, R. M., Teaching Fellow in Political Science  
2639 Channing way Bkly 645
- †Dougherty, J. E., Assoc. Prof. of Poultry Husbandry  
University Farm, Davis
- †Dougherty, P. I., Asst. in Agricultural Extension  
Box 447, El Centro
- †Douglas, J. R., Instr. in Political Science  
474 W-M W F, 3-4  
1040 Keith av Bkly 8715J
- †Doyle, M. J., Plant Asst., Dept. Agriculture  
University Farm, Davis
- Drew, Mrs. D. M., Stenographer, Dept. of Agriculture  
2417 Bancroft way Bkly 3720W
- †Drew, W. D., Chief Clerk, Dept. Agriculture  
Citrus Experiment Station, Riverside
- Drury, N. B., Instr. in Public Speaking and Secretary to the President  
217 Cal  
1520 Euclid av Bkly 4606W
- Dunbar, Miss H. O., Stenographer and Librarian, Dept. Pathology (M)  
2400 Durant av Bkly 7954

- \*†Eakle, A. S., Assoc. Prof. of Mineralogy  
1108 E Capitol st, Washington, D. C.
- Earll, Miss B. M., Stenographer, Dept.  
Agriculture  
2523 Virginia st Bkly 2127
- Eastman, E. D., Asst. in Chemistry  
2416 Durant av Bkly 2850W
- Easton, Miss E. J., Reader in Mathematics  
2519 Hillegass av Bkly 477
- Eaton, F. B., Asst. in Ophthalmology (M)  
238 Stockton st, S F Papt 4170
- Ebright, G. E., Asst. Clinical Prof. of  
Medicine (M)  
209 Post st, S F Sutter 290
- Echeverria, R., Asst. in Romanic Lan-  
guages  
430 W-Tu Th, 9-10  
2246 Atherton st Bkly 5489W
- †Eddy, A. J., Asst. Prof. of Civil Engineer-  
ing  
304 CE-Tu Th, 9-10; W, 10-11  
902 San Benito rd Bkly 6850W
- †Edwards, G. C., Prof. of Mathematics  
456 W-M Tu W Th, 11  
2546 Dana st Bkly 1618
- Edwards, Miss G. E., Stenographer in  
Comptroller's Office  
3704 Thirty-ninth av, O Frvl 2125J
- Edwards, M. G., Instr. in Mineralogy  
6 Bacon-Tu Th F, 3-4; W, 4-5  
2436 Channing way Bkly 8286W
- Eells, Miss C. A., Stenographer, Dept.  
Agriculture  
760 Fifty-sixth st, O
- Eggert, H. O., Clinical Instr. in Operative  
Dentistry (D)  
350 Post st, S F Grfd 257
- \*Ehrlich, L., Lectr. in Political Science  
475 W-M W F, 10-11  
Faculty Club Local 28 or Bkly 2855
- †Einarsson, S., Instr. in Practical Astron-  
omy  
= 10 O-M W F, 11  
1108 Laurel st Bkly 7754
- †Elliott, E., Prof. of International Law and  
Politics  
433 W-Tu Th, 1  
33 Canyon rd Bkly 7894
- Elliott, Miss R., Instr. in Physical Edu-  
cation  
2 H-W, 10-11; Th, 2-3  
2704 Channing way Bkly 8352
- Etwood, C. F., Instr. in Agricultural Edu-  
cation  
2618 Durant av Bkly 1055W
- †Emge, L. A., Asst. in Obstetrics and Gyne-  
cology (Resident U C Hospital) (M)  
36 Farnsworth lane, S F Park 6964
- †Epley, F. W., Asst. in Radiography and  
Photography (D)  
975B Clayton st, S F
- Essenberg, Miss O. E., Asst. Librarian and  
Zoologist, Scripps Institution for Bio-  
logical Research  
La Jolla
- †Essig, E. O., Asst. Prof. of Entomology  
201 AH  
910 Hilldale av Bkly 7962W
- †Esterly, C. O., Zoologist in the Scripps In-  
stitution for Biological Research  
La Jolla
- †Etcheverry, B. A., Assoc. Prof. of Irri-  
gation Engineering  
307 AH-Tu Th S, 10-11:30  
2598 Buena Vista way Bkly 3866
- †Evans, G. H., Asst. Clinical Prof. of  
Medicine (M)  
233 Post st, S F Dgls 456
- †Evans, H. M., Prof. of Anatomy (M)  
17 Anat-M, 11-12  
2621 LeConte av Bkly 8626W
- Everts, Miss K. J., Lectr. in Vocal In-  
terpretation  
454 W-M, 11-12  
2616 Channing way Bkly 2905
- \*†Fairbanks, H. W., Lectr. on California  
Physiography  
8 Bacon  
1204 Tamalpais rd Bkly 7486
- Falconer, E. H., Asst. in Medicine (M)  
516 Sutter st Grfd 1908
- Faucheux, G., Assoc. Prof. of French Lit-  
erature  
235 W  
2642 Bancroft way Bkly 658
- \*†Fawcett, H. S., Assoc. Prof. of Plant  
Pathology in the Citrus Experiment  
Station and Graduate School of Trop-  
ical Agriculture  
2038 Park av, Baltimore, Maryland
- †Fay, P. B., Asst. Prof. of Romanic Phil-  
ology  
425 W-daily, exc. S, 11  
2508 Hilgard av Bkly 1961W
- Fern, A., Asst. Armorer  
2648 Harrold st, O Frvl 881J
- Filbert, Miss I. G., Stenographer, Dept.  
Agriculture  
University Farm, Davis

- †Fisher, A. L., Voluntary Asst. in Orthopedic Surgery (M)  
126 Stockton st, S F Krny 2770
- Fisk, J. K., Asst. to the Recorder of the Faculties  
206 Cal Hotel Shattuck Bkly 7300
- Flagg, I., Prof. of Greek, Emeritus  
1200 Shattuck av
- Flaherty, M. C., Assoc. Prof. of Forensics  
422 W-Tu, 11-12; Th, 11-12, 2:30-3; S, 10-12  
3338 Twenty-third st, S F Man 8460
- Flannery, F., Bookkeeper in Comptroller's Office  
2616 Telegraph av Bkly 4169
- Fleckenstein, Miss L., Stenographer, Univ. Extension  
1221 Eagle av, A
- †Fleischner, E. C., Voluntary Asst. in Pediatrics (M)  
350 Post st, S F Krny 97
- †Fletcher, L. J., Instr. in Agricultural Engineering  
University Farm, Davis
- Flinn, Miss C. M., Stenographer and Librarian, Dept. Anatomy (M)  
1799 University av Bkly 2174
- †Flinn, J. W., Supt. of the Printing Office  
1799 University av Bkly 2174
- Flossfeder, F. O. H., Instr. in Viticulture and Supt. of Grounds  
University Farm, Davis
- †Foote, F. S., Jr., Assoc. Prof. of Railroad Engineering  
305 OE-Tu Th, 10-11  
1541 Hawthorne ter Bkly 8383
- †Forbes, J. F., Lectr. in Accounting  
203 Crocker bldg, S F Krny 5080
- †Force, J. N., Asst. Prof. of Epidemiology; Lectr. in Preventive Medicine and Hygiene (M)  
HP-Tu Th, 11  
19 Bridge rd Bkly 8028
- †Forke, A., Agassiz Prof. of Oriental Languages and Literature  
336 W-M W, 12  
1840 Berryman st Bkly 8150W
- †Foster, H. B., Engineer, Comptroller's Office  
1980 El Dorado av Bkly 5538
- Foster, Miss M. G., Fellow (HF)  
Hooper Research Lab., S F Snt 600
- Fowler, G. R., Teaching Fellow in Political Science  
2101 Telegraph av, O Lksd 1700
- Fowler, Mrs. M. N., Asst. in Agricultural Extension  
21 AH  
3114 Eton st Pied 1572W
- Fox, W. C., Clerk, Dept. Mechanics  
33 M Local 40
- Frankenheimer, J. B., Instr. in Medicine (M)  
240 Stockton st, S F Grd 832
- †Franklin, W. S., Asst. Clinical Prof. of Ophthalmology (M)  
135 Stockton st, S F Sutter 5252
- Freeborn, S. B., Instr. in Entomology  
203 AH-daily, 9-12, 1:30-4:30  
Faculty Club Local 28 or Bkly 2855
- Freed, M., Gymnasium Asst.  
HG-M Tu Th F, 9:30-10  
Harmon Gymnasium Local 16
- Fritz, Miss D., Stenographer, Dept. Agriculture  
University Farm, Davis
- †Frost, H. B., Instr. in the Citrus Exp. Sta. and Graduate School of Tropical Agriculture  
1363 W Twelfth st. Riverside
- Fryer, J., Prof. of Oriental Languages, Emeritus  
2620 Durant av Bkly 7910
- Furnstal, A. H., Technical Asst (HF)  
U O Hospital, S F Snt 600
- Gamble, S. D., Asst. in Economics  
1539 Spruce st Bkly 5346J
- †Gard, G. W., Asst. Mechanic and Engineer, Dept. Mining  
5815 Ayala st, O
- Gardner, G., Asst. in Physics  
2018 Cedar st.
- †Gardner, N. L., Asst. Prof. of Botany  
7 B-M W F, 8  
2901 Hillegas av Bkly 6273J
- †Gay, F. P., Prof. of Pathology (M)  
2 HP-daily, 10-12  
2347 Prospect st Bkly 3271
- †Gayley, C. M., Prof. of English Language and Literature  
407 W-M, 3 (for graduates); W, 3; F, 5  
2328 Piedmont av Bkly 386
- †Geiger, J. C., Asst. Director, Bureau of Communicable Diseases, State Hygienic Laboratory; Lecturer in Preventive Medicine and Hygiene (M)  
2712 Derby st Bkly 5558J



- Gelston, C. F., Asst. in Pediatrics (Asst. Resident U C Hospital) (M)  
U C Hospital, S F Snt 1151
- †George, J., Asst. in Mechanics and Foreman of Ironwork  
24 M-daily, 9-4:30; S, 9-11  
2600 Grant st
- Gerdine, L., Asst. in Pediatrics (Resident U C Hospital) (M)  
U C Hospital, S F Snt 1151
- †Gericka, W. F., Asst. Prof. of Soil Chemistry  
24 Budd  
1517 Scenic av
- †Gibson, A. C., Voluntary Asst. in Surgery (M)  
135 Stockton st, S F Dgls 2518
- †Gibson, G. E., Instr. in Chemistry  
210 Chem-M W F, 11-12  
2444 Hillside av Bkly 1589W
- †Gibson, H. E., Accountant in Comptroller's Office  
303 Cal  
University Cottage No. 3 Bkly 504
- †Gifford, E. W., Assoc. Curator of the Anthropological Museum  
6 Mus-M W F, 10-10:30  
1444 Third av, O
- Gifford, Mrs. M. F., Asst. in Pediatrics—Speech Defect Clinic (M)  
990 Geary st, S F Frkn 7768
- Giles, C. R., Instr. in Prosthetic Dentistry (D)  
1963 Oak st, S F Park 6424
- †Gillespie, C. G., Lectr. in Preventive Medicine and Hygiene (M)  
102 CE Local 93
- Gillespie, Mrs. K., Instr. in Design (A)  
3307 Clay st, S F West 4228
- †Gilman, C. L., Storekeeper, Dept. Chemistry  
2611 Dana st
- †Gilmore, J. W., Prof. of Agronomy  
11 Budd-Tu Th S, 11  
1227 Bonita av Bkly 8251
- †Girard, W., Instr. in French  
473 W  
2113½ Delaware st Bkly 5669J
- †Glaser, E. F., Instr. in Ophthalmology (M)  
391 Sutter st, S F Dgls 4138
- Goddard, M., Instr. in Comparative Anatomy (D)  
Butler bldg, S F Sutter 73
- †Goggio, E., Instr. in Italian  
473 W-daily, 9-10  
2541 Ellsworth st Bkly 1799
- Gompertz, Miss K., Physician for Women Inf  
1232 Grove st Bkly 3396
- †Gontard, J. C., Instr. in French (to Dec. 31, 1916), Lectr. in Romanic Languages, University Extension  
964 Eddy st, S F Frkn 2193
- Goodrich, A., Stenographer in President's Office  
2304 Telegraph av Bkly 3428
- †Goodspeed, T. H., Asst. Prof. of Botany  
4 B-M W, 10-11  
2617 LeConte av Bkly 4010
- Gould, H. N., Instr. in Zoology  
321 E-M, 9-12, 1-4; Tu Th, 10-12; W, 1-4  
Faculty Club Local 28 or Bkly 2855
- Goulding, Mrs. R., Stenographer, Dept. Agriculture  
University Farm, Davis
- Gow, Mrs. L. K., Filing Clerk, University Extension  
594 Sixty-second st, O Pied 7236W
- †Graham, Mrs. M. L. B., Secretary to the Comptroller  
2428 Channing way Bkly 6408
- Graham, M. W., Asst. in Romanic Languages  
430 W-Th, 10-11  
1639 Oxford st Bkly 6282W
- †Graser, H. I., Asst. in Agricultural Extension  
4 AH
- Grass, J. F., Jr., Asst. in Agricultural Extension  
4 AH  
7102 Hollywood av, Los Angeles
- Gray, Miss C., Bookkeeper, Dept. Chemistry  
2722 Bancroft way Bkly 1278
- †Gray, G. P., Instr. in Insecticides and Chemist in Insecticide Lab.  
300 Ent  
2612 Fulton st Bkly 1039W
- †Gray, Mrs. J. B., Stenographer, Dept. Agriculture  
University Farm, Davis
- †Green, F. T., Prof. of Chemistry, Director of the Chemical Labs., and Dean of the Calif. College of Pharmacy (Ph.)  
500 Devisadero st, S F Park 478
- Green, W. K., Martin Kellogg Fellow in Astronomy (LO)  
Mt. Hamilton

- †Gregg, J. W., Prof. of Landscape Gardening and Floriculture  
304 AH  
2249 Glenn av Bkly 1062J
- †Grevea, G. L., Instr. in Electrical Engineering  
4 M-M, 9:30-10; W, 10:30-11  
1608 Oxford st Bkly 6240J
- †Griffiths, F. P., Lectr. in Law  
106 Boalt  
1902 Myrtle st. O Oakd 4761
- Griffiths, Miss G. F., Instr. in Bacteriology (M)  
8 HP-Tu Th S, 10-12  
1902 Myrtle st. O Oakd 4761
- †Grinnell, J., Asst. Prof. of Zoology and Director of the California Museum of Vertebrate Zoology  
11 MVZ-daily, exc. S, 11  
2811 College av Bkly 6915J
- Guernsey, J. E., Asst. in Soil Technology  
17 Budd
- Guha, K. K., Reader in Mathematics  
2026 Center st Bkly 2503J
- †Guintillo, J. A., Asst. in Palaeontology (to Jan. 31, 1917)  
1815 Hearst av Bkly 2194
- Gunderson, Miss A., Nurse  
Infirmary Local 15
- Gunthorp, Miss P., Head Cataloguer in Library  
2509 Cedar st Bkly 6116
- †Gurley, J. E., Instr. in Dental Chemistry (D)  
850 Post st. S F Grfd 257
- †Haberddier, O. A., Asst. in Radiography (D)  
187A Parnassus av, S F Mrkt 1828
- †Hackett, C. W., Asst. in History  
2508 Ridge rd Bkly 4855J
- Hagelthorn, Miss S. E., Instr. in Physical Education; Director of Medical Gymnastics, first half-year (M)  
2 H-W, 11-12; F, 2-3  
2325 Channing way Bkly 619
- Hagen, R. M., Asst. in Agr. Extension  
4 AH  
2701 Hearst av Bkly 2421
- †Hall, E. E., Assoc. Prof. of Physics  
121 S-W F, 9:30-10; Tu Th, 2:30-3:30  
1501 LeRoy av Bkly 1024W
- †Hall, H. M., Assoc. Prof. of Economic Botany and Asst. Botanist in Agr. Experiment Station  
307 HM-M W, 9-10  
1615 La Loma av Bkly 4188
- †Hall, I. C., Asst. Prof. of Bacteriology (M)  
5 HP-M W F, 1-5  
1634 Blake st
- Ham, R. G., Instr. in English  
412 W-daily, 11  
2529 Hilgard av Bkly 2261
- †Hamff, C. F., Instr. in German  
440 W-W, 11-12  
2427 Haate st Bkly 6596
- †Hanford, W. H., Instr. in Operative Technique and Clinical Instr. in Extracting (D)  
5427 Grove st, O Pied 4877
- Hankey, A. H., Asst. in University Extension; Teaching Fellow in Public Speaking  
2406 Bancroft way Bkly 6428
- Hanna, Miss F. H., Receiving Clerk in Comptroller's Office  
2237 Haate st Bkly 5338
- Hansen, A. C., Asst. Prof. of Drawing and Painting (A)  
728 Montgomery st, S F
- †Harder, H. H., Asst. in Testing Lab., Dept. Civil Engineering  
702 Thirty-sixth av, O
- †Harding, S. T., Asst. Prof. of Irrigation  
307 AH-M W, 2-3; Tu Th F, 9-10  
2728 Haate st Bkly 5392W
- †Haring, C. M., Prof. of Veterinary Science  
m 1 Budd-Tu Th, 9-12  
2317 LeConte av Bkly 1930
- Harmon, R. E., Instr. in Physical Education (FS)  
University Farm, Davis
- †Harrison, M. E., Lectr. in Law  
105 Boalt  
m 2742 Derby st Bkly 367J
- Harrison, R. C., Asst. Prof. of Law (H)  
640 Mills bldg, S F Dgls 799
- †Harrison, R. W., Prof. of Law (H)  
Humboldt Bank bldg, S F Sutter 1935
- Harrison, Miss S., Telephone Operator  
1708 Linden st, O Lkad 1322
- †Hart, W. M., Assoc. Prof. of English Philology and Dean of the Summer Session  
451 W-M W F, 11; 201 Cal-W F, 2-4; Tu Th, 9-12  
2255 Piedmont av Bkly 2078
- †Harvey, R. W., Instr. in Neurology (M)  
211 Edgewood av, S F Park 7095
- †Haskell, M. W., Prof. of Mathematics  
421 W-M Tu W F, 11  
2019 Durant av Bkly 1211

Haskett, Miss E. L., Secretary to Director  
(LO)

Mt. Hamilton

†Hassler, W. C., Lectr. in Preventive Medi-  
cine and Hygiene (M)  
1085 Mission st, S F Mrkt 1491

†Hatch, W., Secretary, Bureau of Visual  
Instruction, University Extension  
2612 Parker st Bkly 577J

†Hatfield, H. R., Prof. of Accounting on  
the Flood Foundation and Dean of the  
College of Commerce  
120 W-daily, 9-9:30  
2633 LeConte av Bkly 2302

\*†Hauser, E. J., Asst. in Agr. Extension  
Sequoia apts Bkly 1585J

\*Hayes, C. J. H., Acting Prof. of History  
30 W  
Faculty Club Local 28 or Bkly 2855

†Hayes, F. M., Asst. Prof. of Veterinary  
Science  
University Farm, Davis

Hayford, Miss M., Nurse  
Infirmary Local 15

Hays, W. C., Asst. Prof. of Architecture  
Arch-Th, 3  
Cloyne Court Bkly 4710

Hayward, E. D., Instr. in Civil Engineer-  
ing  
109 OE-M F, 11-12  
2600 Hilgard av Bkly 5747

†Heath, E. S., Asst. in Botany  
2126½ Hearst av

Hedrick, Miss E. A., Classifier in Library  
Cloyne Court Bkly 4710

†Heileman, W. H., Instr. in Agr. Exten-  
sion  
8 Masonic bldg, Willows

†Heitman, H., Clinical Instr. in Operative  
Dentistry (D)  
240 Stockton st, S F Krny 282

†Heller, K., Instr. in German  
440 W-Tu Th, 2-3  
2214 Vine st Bkly 3070W

Henderson, V. H., Secretary of the Re-  
gents and Land Agent

m 209 Cal  
2816 Derby st Bkly 1716

Hendrickson, A. H., Instr. in Pomology  
101 AH  
Faculty Club Local 28 or Bkly 2855

Hendry, G. W., Instr. in Agronomy  
University Farm, Davis

†Herms, W. B., Assoc. Prof. of Parasitol-  
ogy

m 202 AH-M Tu W Th, 9-9:30, 1:30-2  
1424 LeRoy av Bkly 3802

†Herrod, Mrs. M., Stenographer, University  
Extension  
2226 Chapel st Bkly 879

†Hersam, E. A., Assoc. Prof. of Metallurgy  
204 HM-daily, exc. S, 9:30-10  
47 Arden rd Bkly 1209J

†Hibbard, P. L., Chemist in Fertilizer Con-  
trol  
8 FCL  
Hayward

†Hildebrand, J. H., Asst. Prof. of Chem-  
istry  
201 Chem-Tu, 10; Th, 2; S, 9  
1536 LeRoy av Bkly 7764W

Hill, Miss C. E., Stenographer and Li-  
brarian in Depts. of Physiology and  
Biochemistry (M)  
1730 Addison st Bkly 122W

Hill, Miss O. J., Asst. in Dairy Testing,  
Dept. Agriculture  
2113 Rose st Bkly 7985W

†Hill, F. E., Foreman, Forestry Station  
P. O. Box 501, Santa Monica

†Hinman, F., Instr. in Urology (M)  
516 Sutter st, S F Grfd 1902

Hoag, C. L., Asst. in Surgery (M); Instr.  
in Physiology, first half-year (D)  
City of Paris bldg, S F Sutter 3428

Hoagland, D. R., Asst. Prof. of Agricul-  
tural Chemistry  
FCL-daily, 1:30-4:30  
Faculty Club Local 28 or Bkly 2855

Hobe, Miss A. M., Mills Asst. in Astron-  
omy (LO)  
Mt. Hamilton

†Hodgen, J. D., Prof. of Operative Dent-  
istry (D)  
240 Stockton st, S F Dgls 216

†Hodgson, R. W., Asst. in Botany  
2231 Channing way Bkly 8515

\*†Holden, F. H., Asst. Curator of Osteol-  
ogy, Calif. Museum Vertebrate Zoology  
Dallas, Texas

Holden, Miss L. M., Stenographer, Dept.  
Agriculture  
2224 Dana st Bkly 6656

Hollingsworth, W. W., Teaching Fellow in  
Political Science  
2320 Bancroft way Bkly 1358J

Holmes, Miss A. R., Research Asst. in  
Dental Pathology (D)  
209 Castro st, S F Mrkt 2224

- †Holmes, S. J., Assoc. Prof. of Zoology  
105 E-M, 9; Tu Th, 10; F, 11  
1518 LeRoy av Bkly 8962
- †Holway, R. S., Assoc. Prof. of Physical Geography  
8 Bacon  
Hook, Miss F. M., Clerk in President's Office  
69 Santa Clara av, O Oakd 4486
- Hooper, C. W., Instr. in Research Medicine (HF) (M)  
Hooper Research Lab, S F Snt 600
- Horn, Miss G. H., Clerical Asst. in Library  
210 Castro st, Hayward Hayward 49J
- Horn, Miss M. H., Clerical Asst. in Library  
210 Castro st, Hayward Hayward 49J
- †Horne, W. T., Assoc. Prof. of Plant Pathology  
Care, Mr. F. S. Earle, Herradura, Cuba
- Horsch, W. G., Teaching Fellow in Chemistry  
2001 Allston way Bkly 6710
- †Houston, A. J., Asst. Clinical Prof. of Laryngology, Otology, and Rhinology (M)  
350 Post st, S F Dgls 361
- Houston, Miss M. E., Clerical Asst. in Library  
1607 Scenic av Bkly 3520J
- †Hovey, N., Purchasing Agent in Comptroller's Office  
222 Cal  
2011 Cedar st Bkly 4630W
- †Howard, J. G., Prof. of Architecture and Director of the School of Architecture Arch-Th, 2-3  
1401 LeRoy av Bkly 72
- †Howard, W. L., Assoc. Prof. of Pomology University Farm, Davis
- Howe, L. P., Instr. in Surgery (M)  
516 Sutter st, S F Grfd 1903
- †Howarth, I. W., Prof. of Education and Director of University Extension  
301 Cal-daily, 10-12  
1421 Scenic av Bkly 7493W
- †Howison, G. H., Prof. of Philosophy, Emeritus (died December 31, 1916)
- Hoyt, R. E., Reader in Jurisprudence and Asst. in Law Library  
2025 Lincoln st Bkly 5523
- Hubbell, G. R., Instr. in Radiography (D)  
516 Sutter st, S F Grfd 317
- †Hugill, E. A., Supt. of Grounds and Buildings  
University Cottage No. 6 Local 13
- †Hummel, W. G., Assoc. Prof. of Agricultural Education  
21 Budd-M Tu W, 9:30-10:30  
6118 Ocean View dr, O Pied 5172J
- †Hunt, Thomas Forsyth, Prof. of Agriculture, Director of Agr. Exper. Station, Dean of the College of Agriculture  
112 AH-daily, 10:30-11:30  
1800 Bushnell pl Bkly 3289
- †Hunt, Thomas Francis, Asst. Prof. of Agricultural Extension and Asst. Supt. of Farmers' Institutes  
2 AH  
2644 Parker st Bkly 8335J
- †Huntington, T. W., Prof. of Clinical Surgery, Emeritus (M)  
516 Sutter st, S F Grfd 1903
- †Hurd, A. F., Helper in Dept. Architecture Walnut Creek
- †Hurni, F. H., Asst. in Anatomy (M)  
10 Anat-daily, 9-10  
1421 Henry st Bkly 7644J
- Hurwitz, S. H., Instr. in Research Medicine (HF) (M)  
1019 Ashbury st, S F Park 5947
- Hutchinson, L., Prof. of Commerce on the Flood Foundation and Dean of the College of Letters and Science  
24 W-Tu Th, 10-11  
9 Canyon rd Bkly 2893
- †Hyde, C. G., Prof. of Sanitary Engineering and Acting Dean of the College of Civil Engineering  
101 CE-Tu Th, 2-4  
2579 Buena Vista way Bkly 870
- †Ingrim, R. C., Instr. in Shopwork University Farm, Davis
- †Irwin, F., Instr. in Mathematics  
415 W-M, 3  
1625 Arch st Bkly 4808J
- †Jacobsen, J., Foreman of Repairs University Farm, Davis
- †Jaffa, M. E., Prof. of Nutrition  
m 8 Budd-daily, 9-12  
2637 Virginia st Bkly 949
- Jepson, W. L., Assoc. Prof. of Dendrology  
6 B-Tu Th, 8-9, 4  
2714 Benvenue av
- Jewell, Miss M. E., Clerk, Dept. Chemistry  
473 Thirty-eighth st, O Pied 3432W
- †Johnson, A. W., Asst. in Laryngology, Otology, and Rhinology (M)  
350 Post st, S F Dgls 264

- Johnston, Miss G. A., Stenographer, Secretary's Office  
2284 Roosevelt av Bkly 8960J
- †Johnston, J. E., Teaching Fellow in Argumentation  
236 W-W, 3-5  
2902 Channing way Bkly 5585W
- Jones, C. M., Attendant in Library  
1787 Virginia st
- Jones, H. A., Reader in Jurisprudence and Asst. in Library.  
1600 Walnut st
- †Jones, I. L., Asst. in Physics  
1822 Hearst av
- Jones, Miss K. D., Asst. in Landscape Gardening and Floriculture  
2545 Piedmont av Bkly 7089J
- †Jones, L. T., Instr. in Physics  
204 S-M Tu Th F, 9-10; F, 2-8  
2541 Dwight way Bkly 6628W
- †Jones, W. C., Prof. of Jurisprudence and Director of the School of Jurisprudence  
212 Boalt Hall-daily, 11-12  
2625 Benvenue av Bkly 7264J
- †Joralemon, E., Asst. in Romanic Languages  
430 W-W, 2  
7 Panoramic way Bkly 6005
- †Judson, C. C., Asst. Prof. of Antique Drawing  
Arch-W, 9-12  
1590 LeRoy av Bkly 8384W
- Junor, Miss H., Clerk in Comptroller's Office  
5719 Ayala st, O Pied 3022J
- Junor, Miss L., Clerk in Comptroller's Office  
5719 Ayala st, O Pied 3022J
- Keatinge, Miss A. H., Librarian (M)  
1208 First av, S F Snat 1323
- Kelley, T. R., Instr. in English and History (FS)  
University Farm, Davis
- †Kelley, W. P., Prof. of Agricultural Chemistry in the Citrus Experiment Station and Graduate School of Tropical Agriculture  
1415 W Twelfth st, Riverside
- †Kemp, W. W., Prof. of School Administration  
103 Cal-M F, 11-12  
2517 Piedmont av Bkly 6200J
- Kendall, J. N., Asst. in Botany  
2404 Bancroft way Bkly 6428
- †Kennedy, P. B., Asst. Prof. of Agronomy  
19 Budd  
1027 Peralta st Bkly 7807W
- †Kern, O. J., Asst. Prof. of Agr. Education  
22 Budd-M Tu W, 9-11  
1329 Walnut st Bkly 4203
- Kerr, W. J., Sheldon Travelling Fellow in Research Medicine of Harvard University (HF)  
Hooper Research Lab., S F Snat 600
- †Kerr, W. W., Clinical Prof. of Medicine (M)  
2160 Vallejo st, S F West 2190
- †Kettlewell, C. A., Field Foreman, Dept. Agriculture  
University Farm, Davis
- Keyes, D. B., Asst. in Chemistry  
2606 Bancroft way Bkly 2617
- †Keys, R. E., Librarian (D)  
391 Sutter st, S F Krny 5520
- †Keyser, C. J., Exchange Prof. of Mathematics (to December 31, 1916)  
Columbia University, New York, N. Y.
- Kiang, S. C., Asst. in Chinese  
11 L-daily, 10-11  
6433 Benvenue av, O
- Kidd, A. M., Prof. of Law  
214 Boalt-Tu Th, 9:30-10  
349 Cherry st, S F Pac 1686
- †Kilgore, E. S., Asst. Prof. of Medicine (M)  
4025 Lyon av, O Frvl 1522J
- †Kincaid, E. A., Asst. in Economics  
1214 Walnut st Bkly 2050J
- Kinell, Miss H. A., Stenographer in Infirmary  
2211 Stuart st Bkly 5882
- †King, H. S., Teaching Fellow in German  
441 W-daily, 10-11  
2550 Ellsworth st Bkly 8647
- Kingsbury, W., Asst. in Agr. Education  
2530 Ellsworth st Bkly 8990
- †Kleeberger, F. L., Director of Men's Gymnasium and Assoc. Prof. of Physical Education  
1 HG-daily, 10-12; M Tu Th F, 2-3  
2563 Buena Vista way Bkly 8989W
- \*†Kocher, R. A., Instr. in Research Medicine (HF) (M)  
1275 Seventh av, S F Snat 2189
- Koehler, Miss H. A., Stenographer (D)  
614 Fifth av, S F Pac 1018
- Koenig, Miss M. E., Reader in German  
2237 Atherton st Bkly 4968
- †Kofoid, C. A., Prof. of Zoology and Asst. Director of the Scripps Inst. for Biological Research  
208 E-Tu Th, 11-12  
2616 Etna st Bkly 1059

- †Kower, H., Assoc. Prof. of Drawing  
305 D-M, 11-12; W, 1-2  
1256 E Thirty-seventh st, O Mer 3803
- †Kraus, G. P., Helper and Mechanic, Dept.  
Physics  
1608 Francisco st  
Bkly 3812
- †Kress, G. H., Dean of the Faculty, Los  
Angeles Medical Dept.  
245 Bradbury bldg., Los Angeles
- †Kreutzer, G. C., Instr. in Agricultural Ex-  
tension  
104 Court House, Bakersfield
- Kroeber, A. L., Assoc. Prof. of Anthro-  
pology and Curator of the Anthro-  
pological Museum  
6 Mus-M, 4-5; W, 2-3  
2848 Washington st, S F Flmr 1165
- Kruger, C. H., Reader in Mathematics  
1442 Henry st
- †Kuch, H., Clerk in Dept. Military Science  
478 Nineteenth st, O Oakd 237
- †Kuno, Y. S., Instr. in Japanese  
386 W  
1184 Arch st
- †Kurtz, B. P., Assoc. Prof. of English  
410 W-M F, 11-12; W, 3-3:30  
59 Santa Clara av, O Oakd 6276
- †Laing, G. J., Lectr. on the Sather Founda-  
tion (to March 31, 1917)  
424 W  
Cloyne Court Bkly 4710
- Lambert, H. L., Locker Asst., Dept. Physi-  
cal Education  
620 Hobart st
- Lane, Miss E., Stenographer in So. Calif.  
Pathological Laboratory  
Whittier
- †Lange, A. F., Prof. of the Theory and  
Practice of Education and Director  
of the School of Education  
103 Cal-daily, exc. S, 11-12  
2601 LeConte av Bkly 424
- †Langelier, W. F., Asst. Prof. of Sanitary  
Engineering.  
103 CE-M W F, 9-10  
2327 Cragmont av Bkly 2925W
- †Langille, H. B., Asst. Prof. of Machine  
Design and Mechanical Drawing  
32 M-M, 9-10; Tu Th F, 9-11  
1522 Spruce st Bkly 278J
- †Langstroth, L., Asst. in Medicine (M)  
240 Stockton st, S F Dgls 3600
- Larson, J. A., Asst. in Physiology (M)  
PL-M Tu W Th, 2-5  
1432 Milvia st
- †Lawson, A. C., Prof. of Mineralogy and  
Geology and Dean of the College of  
Mining  
221 HM-M W F, 11; 107 Bacon-Tu  
Th, 11  
1515 La Loma av Bkly 3812
- Lawson, Miss B. A., Teaching Asst. in  
Mathematics  
420 W-M W F, 1-2  
2228 ½ McKinley av Bkly 784
- †Lea, E. J., Assoc. Prof. of Nutrition  
260 Ent-daily, exc. S, 9-12, 1-5; S, 9-  
12  
2840 Parker st Bkly 3901
- Leber, G. A., Clerical Asst. in Library  
930 Tenth st, O Oakd 4712
- †LeConte, J. N., Prof. of Engineering Me-  
chanics; Dean of the College of Me-  
chanics, first half-year  
27 M-M W, 11-12, 1:30-2:30; Tu Th  
8:30-9:30  
19 Hillside court Bkly 4489
- †Lee, A. W., Instr. in Dermatology (M)  
1107 Stanyan st, S F Park 3208
- †Lee, M. A. W., Asst. in Agr. Extension  
Hayward Hayward 176
- Lee, Miss S. J., Clerk to the Appointment  
Secretary  
2617 Hillgass av Bkly 104
- †Leebrick, K. C., Chief Asst. in History  
30 W  
2325 Howe st Bkly 4786J
- †Leet, R. A., Lectr. on the Business Side  
of Pharmacy (Ph)  
1801 Broadway, O Oakd 338
- †Legge, R. T., Prof. of Hygiene and Uni-  
versity Physician  
1 Inf-daily, 5-6; Tu Th, 9-11; F, 9-10;  
M W S, 9-12  
3016 Benvenue av Bkly 2917J
- †Lehmer, D. N., Assoc. Prof. of Mathe-  
matics  
417 W-M W F, 11  
2736 Regent st Bkly 9359J
- †Leland, W. E., Lectr. in Architectural  
Mechanics  
Arch-M W, 9  
912 Indian Rock av Bkly 2034
- Lemon, Miss M., Asst. in Physical Educa-  
tion  
3 H-M, 10-11; Tu, 11-12  
2722 Bancroft way Bkly 1278
- †Lemos, P. J., Prof. of Design and Ap-  
plied Arts and Director of the Cal-  
ifornia School of Fine Arts (A)  
363 Perry st, O Oakd 786

- †Lennon, M. B., Instr. in Neurology (M)  
135 Stockton st, S F Kny 1859
- †Lentelli, L., Asst. Prof. of Modeling (A)  
2546 Greenwich st, S F West 4113
- †Leslie, W., Special Lectr. in Economics  
707 Twenty-seventh av, S F Pac 7585
- †Leupp, H. L., Associate Librarian  
L-daily, 9-5  
1830 San Juan av Bkly 4639
- †Lenschner, A. O., Prof. of Astronomy,  
Director of Students' Observatory,  
and Dean of the Graduate School.  
217 Cal-M W F, 11-12; Tu Th S, 10-11  
1816 Scenic av Bkly 2182
- Levinson, H. J. H., Asst. in Chemistry  
2429 Blake st
- Levy, Miss S. H., Asst. to the Dean of the  
Graduate School  
1809 Euclid av Bkly 1615
- \*†Lewis, C. I., Asst. Prof. of Philosophy  
2 P-daily, exc. S, 8-3:30  
25 Panoramic way Bkly 1159
- †Lewis, E. P., Prof. of Physics  
307 S-M W F, 9-10; Tu Th, 1:30-3  
27 Panoramic way Bkly 1031
- †Lewis, G. N., Prof. of Physical Chemistry  
and Dean of the College of Chemistry  
412 Chem-daily, 9-12  
2440 Hillside av Bkly 7484W
- †Lewitt, F. C., Asst. in Laryngology, Otol-  
ogy, and Rhinology (M)  
291 Geary st, S F Sutter 110
- †Lewitt, W. B., Prof. of Pediatrics, Emer-  
itus (M)  
210 Post st, S F Sutter 494
- Liebermann, G. O., Helper in Laboratory,  
Dept. Physics  
2104 Sixth st
- \*†Lilly, L., Instr. in Accounting  
University of Washington, Seattle, Wn.
- Limerick, Miss A. R., Clerk, Comptroller's  
Office  
2204 Roosevelt av
- †Lindlev, C. H., Hon. Prof. of Law of  
Mines and Water  
Mills bldg, S F Sutter 1116
- †Linthorpe, I. M., Assoc. Prof. of Greek  
434 W-daily, 11  
2233 Eunice st Bkly 2830W
- Linhart, G. A., Teaching Fellow in Chem-  
istry  
End of Spruce st, Cragmont  
Bkly 9369W
- Lipman, C. B., Prof. of Soil Chemistry  
and Bacteriology  
15 Budd-daily, exc. S, 9-10  
Faculty Club Local 28 or Bkly 2855
- Lisser, H., Asst. in Medicine (M)  
516 Sutter st, S F Grfd 317
- Lloyd, W. E., Instr. in Poultry Husbandry  
University Farm, Davis
- Loewenberg, J., Instr. in Logic  
2 P-Tu Th, 2-3  
2704 Virginia st Bkly 4695W
- \*†Long, J. A., Asst. Prof. of Embryology  
1534 La Loma av Bkly 7428W
- Loomis, A. G., Asst. in Chemistry  
2310 Bowditch st Bkly 8325W
- †Louderback, G. D., Assoc. Prof. of Geol-  
ogy  
103 Bacon-M W, 4; Tu Th, 11  
2713 Derby st Bkly 8260
- Loughridge, R. H., Prof. of Agricultural  
Chemistry, Emeritus  
2218 Union st Bkly 2967
- †Lucas, W. P., Prof. of Pediatrics (M)  
2513 Pierce st, S F Flmr 2562
- Luck, J. A. W., Asst. in Chemistry  
1920 Oxford st Bkly 2434J
- Lyman, W. W., Jr., Instr. in Celtic and  
English  
405 W-Tu Th, 11  
11½ Panoramic way Bkly 6966W
- †Lynch, F. W., Prof. of Obstetrics and  
Gynecology (M)  
2511 Broadway, S F Flmr 4199
- †Lynch, M. C., Assoc. Prof. of Law  
215 Boalt-M W, 8:30-9, 11-12; Tu Th,  
10-11:30  
2710 Durant av Bkly 7780W
- †Lyon, F. F., Instr. in Agr. Extension  
Chamber of Commerce, Stockton
- Lyser, Miss A. I., Senior Asst. in Library  
2704 Virginia st Bkly 4695W
- †Macaulay, F. R., Instr. in Economics  
24 W-F, 4-5  
2442 Hilgard av Bkly 1023J
- McBride, Miss K., Technical Asst. (HF)  
Second and Parnassus avs, S F  
Snst 600
- McBride, R., Asst. Supt. of Cultivations  
Citrus Experiment Station, Riverside
- McCartney, Mrs. S. L., Clerk, College of  
Dentistry (D)  
1868 Page st, S F
- †McCollom, F. B., Asst. in Gymnastics  
HG-M Tu Th F, 2-2:15  
1616A Virginia st Bkly 8299J

- †McCormac, E. I., Assoc. Prof. of American History  
30 W-W, 11-12  
1404 Hawthorne ter Bkly 2407W
- †McCowen, C. S., Clinical Instr. in Orthodontics (D)  
Head bldg. S F Grfid 958
- †Macdonald, D. G., Clerk in Comptroller's Office  
1525 Oak st. O Lkad 2933
- †MacDonald, E. J., Mechanic in Steam and Hydraulic Laboratories  
1619 Walnut st Bkly 2611J
- McDonald, J. H., Asst. Prof. of Mathematics  
456 W  
3136 Lewiston av
- †Mace, L. S., Instr. in Medicine (M)  
240 Stockton st, S F Grfid 808
- †McEwen, G. F., Hydrographer and Curator of the Oceanographic Museum, Scripps Inst. for Biological Research  
La Jolla
- McGee, J. M., Asst. in Chemistry  
2606 Bancroft way Bkly 2617
- †McGlashan, E. L., Instr. in Orthodontic Technique (D)  
1296A Ninth av, S F Snat 1061
- †McGregor, Mrs. E. C., Clerk, University Extension  
62 Post st, S F Krny 100
- McGuire, Miss E., Instr. in Spanish  
464 W-daily, exc. S, 11-11:30  
1608 La Loma av Bkly 8664W
- Mackinnon, Miss A. B., Bookkeeper, Dept. Agriculture  
2301 Ward at Bkly 3115
- †McLaughlin, C., Laboratory Mechanic, Dept. Chemistry  
1639 Grant st
- †McLean, R. A., Prof. of Surgery, Emeritus (M)  
Cloyne Court Bkly 4710
- MacMinn, G. R., Instr. in English  
405 W-daily, 2-3: W, 10-11: S, 10-12  
Faculty Club Local 28 or Bkly 2855
- †McMurray, O. K., Prof. of Law  
213 Boalt-daily, exc. S, 10  
2327 LeConte av Bkly 8978
- †McVev, C. L., Physician for Men  
5401 Carlton at, O Pied 2938
- †Madsen, B. A., Asst. Prof. of Agronomy  
University Farm, Davis
- †Magee, W. E., Prof. of Physical Culture  
Exeter
- Magni, J. A., Instr. in French  
472 W  
Faculty Club Local 28 or Bkly 2855
- Marsh, Miss H. D., Clerk in Comptroller's Office  
2420 Fulton st Bkly 8367
- †Markel, H. H., Asst. in Orthopedic Surgery (M)  
516 Sutter st, S F Grfid 1904
- †Marshall, J. A., Instr. in Biochemistry (M)  
2519½ Durant av Bkly 8705W
- †Marshall, L. K., Asst. in Agronomy, Kearney Park  
R. R. H., Box 51, Fresno
- Martin, D. F., Asst. in Soil Chemistry and Bacteriology  
15 Budd-daily, 8:30-12, 1-5  
2420 Durant av Bkly 8757J
- Martin, G. H., Jr., Asst. in Physiology (M)  
110 PL-M Tu W Th F, 2-4  
2422 Durant av Bkly 186J
- †Martin, G. J., Registrar, Hastings College of the Law (H)  
928 Pacific bldg, S F Dgls 1536
- Martin, Miss N. J., Senior Asst. in Library  
2500 Durant av Bkly 8623
- †Martin, W. F., Asst. Prof. of Engineering Mechanics  
27 M-M W F, 10-11  
1054 Mariposa av Bkly 8214W
- †Martinez, X. T., Instr. in Drawing (A)  
816 Scenic av, P Pied 4359
- †Mason, D. T., Prof. of Forestry  
F-M W Th, 11-12  
2625 LeConte av Bkly 8626J
- Masters, L. C., Laboratory Asst., Dept. Agriculture  
Citrus Experiment Station, Riverside
- †Matthew, A. P., Lectr. on the Law of Interstate Transportation  
" 932 Mills bldg, S F Sutter 1651
- †Mattill, H. A., Asst. Prof. of Nutrition  
6 Budd-daily, 9-12  
2752 Piedmont av Bkly 5838J
- †Mauk, E. H., Prof. of Prosthetic Dentistry (D)  
1343 Third av, S F Snat 3046
- Maxwell, Miss A. F., Asst. in Obstetrics and Gynecology (Asst. Resident U C Hospital) (M)  
U C Hospital, S F Snat 1151



- †Maxwell, S. S., Assoc. Prof. of Physiology  
(M)  
202 PL-Tu Th, 9:45-10:30  
15 Hillside court Bkly 1982
- May, O., Mail Carrier  
1520 Alcatraz av Pied 3856W
- †Mayhew, T. C., Instr. in Agricultural Ex-  
tension  
Chamber of Commerce, Madera
- †Mead, E., Prof. of Rural Institutions  
20 AH-daily, 9-12  
6215 Chabot rd, O Pied 3102J
- Meads, A. M., Lectr. in Hygiene and  
Assoc. Infirmary Physician  
Inf-daily, 8:30-10  
2510 College av Bkly 6242W
- Mecham, J. L., Reader in History  
2431 Dana st Bkly 547W
- Meek, Miss N., Clerk in Dept. Civil Engi-  
neering  
2128 Hearst av Bkly 288
- Mel, Miss M., Stenographer (M)  
1429 Spruce st Bkly 2041
- †Merriam, J. C., Prof. of Palaeontology and  
Historical Geology  
204 Bacon-Tu Th, 11:10  
2401 Bowditch st Bkly 1908
- †Merrill, W. A., Prof. of Latin Language  
and Literature  
436 W-M Tu W Th, 12: F, 11  
2609 College av Bkly 1790W
- †Merritt, R. P., Comptroller  
220 Cal  
1712 Arch st Bkly 871
- †Mertz, W. M., Superintendent of Cultiva-  
tions, Dept. Agriculture  
Citrus Experiment Station, Riverside
- †Metcalf, W., Asst. Prof. of Forestry  
Forestry Bldg
- †Meyer, K. F., Assoc. Prof. of Tropical  
Medicine (HF) (M)  
191 Frederick st, S F Park 7514
- †Meyer, M. A., Lectr. in Semitic Literature  
and History  
332 W-Tu, 1-4  
2109 Baker st, S F Flmr 666
- †Michael, E. L., Zoologist and Administra-  
tive Asst., Scripps Inst. for Biological  
Research  
La Jolla  
Milhaus, Miss E., Stenographer, Dept.  
Agriculture  
2400 Durant av Bkly 7954
- †Millberry, G. S., Prof. of Dental Chemis-  
try and Metallurgy and Dean of the  
College of Dentistry (D)  
1043 Clayton st, S F Park 4190
- †Miller, E. F., Technical Asst. in Anatomy  
(M)  
2415 Prince st Bkly 4500J
- Miller, Miss M. M., Mimeograph Operator  
in Printing Office  
1241 Grove st Bkly 7784
- †Miller, M. R., Asst. Chemist in Insecticide  
Control  
380 Ent  
662 Sixty-sixth st, O Pied 6205W
- Miller, R. B., Special Instr. in Fencing  
HG-Tu Th, 4:45-6  
Olympic Club, S F Pspt 4400
- †Miller, R. F., Asst. Prof. of Animal Hus-  
bandry  
University Farm, Davis
- †Millikan, R. A., Hitchcock Lectr. for  
1916-17  
Throop College of Technology, Pasadena
- †Mills, J. W., Asst. in Agricultural Exten-  
sion  
Court House, Fairfield
- †Minor, R. S., Assoc. Prof. of Physics  
201 S-M Tu Th F, 2-3  
2614 Warring st Bkly 1267W
- †Mitchell, S. B., Head of Accessions Dept.  
in Library  
1010 Oxford st Bkly 7855
- Mitrani, C. S., Reader in History  
2415 Durant av Bkly 1712
- †Moffitt, H. C., Prof. of Medicine and Dean  
of the Medical School (M)  
U C Hospital, S F Snst 1151
- Monsees, Miss J. L., Stenographer in  
Comptroller's Office  
4046 Hopkins st, O
- Montgomery, G., Teaching Fellow in Eng-  
lish  
410 W-M, 9-10  
2 Edlington Court apts Bkly 6769
- Moody, Miss A. C., Departmental Secre-  
tary (M)  
1286 Second av, S F Snst 2725
- Moody, C. L., Teaching Fellow in Geology  
and Mineralogy  
2400 Haste st Bkly 4596
- †Moody, R. O., Assoc. Prof. of Anatomy  
(M)  
11 Anat-M W F, 2: Tu Th S, 11  
2826 Garber st Bkly 3058

- Moore, Miss H. A., Asst. in Recorder's Office  
1410 Bonita av Bkly 4015
- †Moore, H. T., Lectr. on Surgery (D)  
391 Sutter st, S F Grfd 605
- †Moore, J. H., Asst. Astronomer (LO)  
Mt. Hamilton
- †Moore, J. N., Foreman, Forestry Station  
P. O. Box 851, Ohio
- Moore, Miss L. M., Instr. in Physiology (M)  
205 PL-F, 10-12  
2736 Haate st Bkly 8680
- †Moore, W. G., Instr. in Obstetrics and Gynecology (M)  
177 Post st, S F Dgls 5726
- †Morgan, Mrs. A. F., Asst. Prof. of Household Science  
206 HE-M, 9-10; W, 2-4  
1429 LeRoy av Bkly 5844W
- †Morgan, D. N., Asst. Prof. of Agriculture and Asst. to Director of the Agr. Exp. Station  
112 AH-daily, 10-12, 2-4  
838 Indian Rock av Bkly 5286
- †Morley, S. G., Asst. Prof. of Spanish  
430 W-Tu Th, 9  
2535 Etna st Bkly 955
- †Morley, W. S., Asst. Prof. of Metallurgy  
108 HM-M Tu Th F, 11-12  
2611 Piedmont av Bkly 8028W
- †Morris, F. R., Teaching Fellow in Mathematics  
206 W-Tu Th S, 10-10:30  
2034 Durant av Bkly 6939W
- †Morris, W. A., Asst. Prof. of English History  
30 W-M Tu W Th F, 2  
2617½ Hillegass av Bkly 5223
- Morrison, Miss M. E., Nurse in Medical School (M)  
U C Hospital, S F Snst 1155
- †Morrow, H., Clinical Prof. of Dermatology (M)  
Butler bldg, S F Dgls 2397
- Morrow, Miss L., Asst. in Social Economics; Asst. in Pediatrics (M)  
10 L  
1233 First av, S F Snst 2371
- Morse, A. L., Asst. in Clinical Operative Dentistry (D)  
1275 Third av, S F Snst 1012
- Morse, Miss I. G., Asst. in Chemistry  
1691 Bush st, S F Frkn 386
- Mortenson, Miss C. E., Asst. in Economics  
1531 Arch st Bkly 375
- Mortimore, Miss G. S., Stenographer, Dept Agriculture  
University Farm, Davis
- Morton, Miss G. E., Stenographer, Comptroller's Office  
1508 Edith st
- †Moses, B., Prof. of History and Political Science, Emeritus  
Walnut Creek
- Moulty, Miss E. H., Stenographer, Dept Agriculture  
1414 LeRoy av Bkly 318
- †Mulford, W., Prof. of Forestry  
F-M W F, 10:15-12  
1619 Spruce st Bkly 3402W
- Mulhall, P. D., Asst. in Botany  
Pacific Unitarian School Bkly 1141
- Murphy, Miss H. G., Stenographer, School of Jurisprudence  
Treehaven apts Bkly 841W
- †Musante, C. B., Instr. in Operative Technique (D)  
1103 Valencia st, S F Man 7913
- Naftziger, H. O., Instr. in Surgery (M)  
291 Geary st, S F Sutter 1892
- †Nahl, P. W., Instr. in Freehand Drawing and Art Anatomy; Reader and Instr. in Freehand Drawing, University Extension  
100 D-M W F, 2-3; Th, 10-11  
6043 Harwood av, O Pied 6016
- †Nalder, F. F., Secretary, Bureau of Correspondence Instruction, University Extension  
301 Cal  
1809 Walnut st Bkly 7232
- †Nance, J. T., Prof. of Military Science and Tactics  
Armory-M W, 9:30-11  
2536 Piedmont av Bkly 5957
- Nash, J. B., Special Instr. in Recreational Theory  
1506 Hampel st, O Mer 330
- †Neel, J. C., Instr. in Obstetrics and Gynecology (M)  
516 Sutter st, S F Grfd 1901
- Neff, B. G., Dental Surgeon in the Infirmary  
1450 Fernside blvd, A Ala 3015
- Neilson, Miss N. M., Technical Asst (HF)  
2548 Haate st Bkly 4993A
- †Nelson, G. F., Laboratory Mechanic, Dept Chemistry (resigned Oct. 31, 1916)  
1714 Hearst av

- †Nelson, J. W., Asst. Prof. of Soil Technology  
17 Budd
- †Nettleship, C., General Asst., Dept. Agriculture  
422 E Philadelphia st, Whittier
- †Neuhaus, K. E., Asst. Prof. of Decorative Design  
200 D  
2922 Derby st Bkly 3262J
- Newhart, A., Helper, Dept. Pathology (M)  
1425 Twenty-third av, O Frvl 1069W
- Newton, R. F., Asst. in Chemistry  
2600 Bancroft way Bkly 6819
- †Nicholei, C. T., Plant Asst., Dept. Agriculture  
University Farm, Davis
- †Nichols, C., Instr. in Agricultural Extension  
2807 Hearst av Bkly 5263W
- Nish, F. W., Prof. of Pharmacy and Director of the Pharmaceutical Lab. (Ph)  
1022 Masonic av, S F Park 5810
- †Noble, C. A., Assoc. Prof. of Mathematics and Asst. Examiner of Schools  
455 W-Tu Th, 8  
2224 Piedmont av Bkly 2533
- Norton, W. D., Asst. in Athletics  
2 HG-M Tu Th F, 2:45-3:15, 3:45-4:15  
2215 Grant st Bkly 256
- †Noyes, G. R., Assoc. Prof. of Slavic Languages  
15 L  
1434 Greenwood ter Bkly 5603
- Nunenmacher, F. W., Office Asst., Dept. Agriculture  
1209 Francisco st Bkly 2736
- †Nutting, H. C., Asst. Prof. of Latin  
477 W-M W F, 4; Tu, 11; Th, 9; S, 10  
1425 Walnut st Bkly 304
- †O'Connor, R. P., Asst. in Ophthalmology (M)  
148 Moss av, O Pied 3126J
- †Olnev, W., Jr., Attorney of the Board of Regents  
1107 Merchants Exchange bldg, S F Grfd 2434
- †O'Neill, E., Prof. of Inorganic Chemistry and Director of the Chemical Laboratory  
" 221 Chem-daily, exc. S, 11  
2522 College av Bkly 436W
- O'Sullivan, C. D., Asst. in Dept. Military Science and Tactics  
2717 Hearst av Bkly 5770
- Otis, Miss M. I., Instr. in Physical Education  
3 H-Tu Th, 1:30; Tu, 10  
2727 Durant av Bkly 7588J
- †Outhwaite, L., Teaching Fellow in Anthropology  
6 Mus-M, 10-11  
2577 Buena Vista way Bkly 1514
- †Packard, W. E., Asst. Prof. of Agronomy and Experimental Agronomist in charge of Imperial Valley Station  
El Centro
- Paddock, G. F., Asst. in Astronomy (LO)  
Mt. Hamilton
- †Paetow, L. J., Asst. Prof. of Medieval History  
30 W-M Tu W F, 10-10:30; Th, 3  
722 Arlington av Bkly 2209W
- Paine, Miss E., Stenographer, Univ. Extension  
2111 Virginia st Bkly 3428W
- Palmer, Miss M. J., Reader in Mathematics  
2635 College av Bkly 7317W
- \*†Parker, C. H., Asst. Prof. of Industrial Economy  
University of Washington, Seattle, Wn.
- †Parker, W. B., Asst. Prof. of Agricultural Extension  
2701 Virginia st Bkly 4050
- Parkhurst, Miss M. C., Plant Asst., Dept. Agriculture  
University Farm, Davis
- Parks, G. S., Asst. in Chemistry  
2406 Dana st Bkly 7713
- Parma, Miss R., Librarian, Dept. Jurisprudence  
Berkeley Inn Bkly 6370
- Paroni, Miss R., Asst. Prof. of Hygiene and Physician for Women  
Inf-daily, 10-12, 8-4  
2647 Stuart st Bkly 4847
- †Partridge, H., Voluntary Asst. in Urology (M)  
3004 Sixteenth st, S F Mrkt 441
- †Paschall, C., Asst. Prof. of German  
400 W-M F, 9-10; W, 2-2:30  
2319½ Haste st Bkly 3972W
- Patterson, J. N., Asst. in the Chemical Laboratory (Ph)  
486 Geary st, S F Frkn 630
- Patterson, Miss M. F., Asst. Prof. of Household Art  
800 HE-Tu Th, 11-12  
1715 La Loma av Bkly 4844

- Peck, S. L., Asst. in Chemistry  
2411 Durant av Bkly 474
- †Pegram, Mrs. E. H., Stenographer, Dept.  
Agriculture  
2236 Durant av Bkly 7965
- †Peixotto, Miss J. B., Assoc. Prof. of  
Social Economics  
Gedney Farm Hotel, White Plains, N. Y.
- Percival, Miss G., Laboratory Asst. in  
Household Art  
305 HE  
2617 Hillegass av Bkly 104
- Pernot, F. E., Asst. Prof. of Electrical  
Engineering  
4 M-W F, 10-11  
Faculty Club Local 28 or Bkly 2855
- Perry, Miss J. M., Stenographer, School  
of Jurisprudence  
2818 Benvenue av Bkly 302
- Perry, W. C., Instr. in Architecture  
Arch-daily, 3:30-5  
2636½ Dwight way Bkly 279W
- †Petersen, P. T., Asst. in Veterinary  
Science, in charge of Serum Manu-  
facture, Dept. Agriculture  
1610 Sixty-fifth av, O Frvl 2941W
- †Petersson, T., Instr. in Latin  
476 W  
2520 Hillegass av Bkly 6147W
- Phelps, J. F., Attendant in the Library  
2319 Woolsey st Bkly 8916W
- Philbrick, F. S., Prof. of Law  
216 Boalt-M Tu W Th F, 1-2:30  
Faculty Club Local 28 or Bkly 2855
- Phillips, Miss A. E., Librarian and Clerk,  
Dept. Physics  
Hotel Claremont Bkly 9300
- Phillips, Miss E. B., Reader in Latin  
6459 Benvenue av, O Pied 2679W
- Phinney, Miss M. A., Mailing Clerk, Dept.  
Agriculture  
1611 Spruce st Bkly 8257
- Phippa, Miss G. E., Senior Asst. in  
Library  
2743 Prince st Bkly 1000
- Phleger, H. H., Lectr. in Law  
105 Boalt  
Crocker bldg. S F Sutter 666
- †Pinger, W. R. R., Asst. Prof. of German  
1210 Shattuck av Bkly 5804J
- †Player, L. P., Asst. in Urology (M)  
516 Sutter st, S F Grfid 889
- †Plehn, C. C., Prof. of Finance on the  
Flood Foundation  
24 W-M, 1; W, 1:45; Tu, 8:45; Th,  
9:30  
2308 Warring st Bkly 1385
- †Ploss, C., Asst. Armorer  
1710 Grant st Bkly 5425W
- †Podstata, V. H., Lectr. in Psychiatry (M)  
Livermore
- †Pomeroy, W. C., Asst. in Physics  
2333 Channing way Bkly 8515
- †Poor, H. V., Asst. Prof. of Drawing and  
Painting (A)  
3417 Twenty-fourth st, S F
- †Pope, A. U., Asst. Prof. of Philosophy  
2 P-Tu Th, 10:50  
"High Acres," Berkeley Bkly 4928J
- †Pope, S. T., Asst. Clinical Prof. of Sur-  
gery (M)  
135 Stockton st, S F Sutr 3332
- Pope, W. T., Instr. in Botany (FS)  
University Farm, Davis
- †Popper, W., Assoc. Prof. of Semitic Lan-  
guages  
15 L-Th, 2  
6 The Alameda Bkly 3306
- Porter, W. K., Senior Asst. in Library  
2529 Hilgard av Bkly 2261
- Powell, A., Physician for Men and Roent-  
genologist  
2703 Dwight way Bkly 3629W
- Poytress, W. H., Reader in History  
2217 Ellsworth at Bkly 6822J
- Pratt, Miss A. S., Senior Asst. in Library  
2520 Durant av Bkly 1675
- †Pratt, J. P., Instr. in Surgery (M)  
291 Geary st, S F Sutter 1892
- †Pratt, M. B., Asst. Prof. of Forestry  
F  
6305 College av, O Pied 5268
- Preuss, Miss M. S., Asst. to the Dean  
of Women  
2608 Benvenue av Bkly 2295J
- †Price, C., Asst. Prof. of Latin  
478 W-M W F, 11, 8  
23 Panoramic way Bkly 1061W
- †Price, L. M., Instr. in German  
402 W-daily, 10  
2404 Cedar st Bkly 8443J
- Pries, Miss E. F., Stenographer, Dept.  
Agriculture  
2015 Parker at Bkly 317J
- †Priestley, H. I., Asst. Curator of the Ban-  
croft Library  
BL  
1425 Arch st Bkly 4665J

- †Probert, F. H., Prof. of Mining  
132 HM-M Tu W, 1-2; Th F, 9-11  
28 Oakvale av Bkly 8981
- Pruellage, Miss K. M., Stenographer and  
Clerk in Comptroller's Office  
4200 Kanning st, O Frvl 1464W
- Pruett, J. F., Asst. in Urology (M)  
1105 Stanyan st, S F
- †Purington, Mrs. E. H., Research Asst. in  
Zoology  
2223 ½ Chapel st Bkly 5763
- Purpus, C. A., Botanical Collector for the  
University  
Zacapan, Huatusco, Vera Cruz, Mexico
- †Putnam, T. M., Assoc. Prof. of Mathe-  
matics and Dean of the Lower Divi-  
sion  
207 Cal-M W F, 10-12:15; Tu Th, 9-  
10, 11-12:15  
2740 Elmwood av Bkly 8408J
- †Putzker, A., Prof. of German Literature,  
Emeritus  
2600 Telegraph av Bkly 5148
- Quackenbush, Miss R. C., Clerk, Com-  
ptroller's Office  
1201 Colusa av Bkly 7408
- †Quayle, H. J., Prof. of Entomology in the  
Citrus Experiment Station and Grad-  
uate School of Tropical Agriculture  
Citrus Experiment Station, Riverside
- Raber, B. F., Assoc. Prof. of Mechanical  
Engineering  
28 M-M W F, 11; Tu Th, 11, 1-4  
2027 Delaware st Bkly 3712
- Ralston, W. R., Asst. in Agricultural Ex-  
tension  
Hotel Shattuck Bkly 7300
- Ramsay, Miss E. M., Clerk and Steno-  
grapher, Dept. Agriculture  
Citrus Experiment Station, Riverside
- Ramsev, Miss A. E., Junior Asst. in  
Library  
2516 Virginia st Bkly 8480
- †Randall, M., Research Associate in Chem-  
istry  
m 413 Chem  
2686 Haste st Bkly 1144W
- †Randolph, L. F., Asst. Prof. of Anatomy  
(A)  
1367 Post st, S F Frkn 6691
- †Ray, L. A., Technician in Biochemistry  
(M)  
525 Sixty-second st, O Pied 3011W
- †Raymond, W. J., Assoc. Prof. of Physics  
117 S-Tu Th, 11-11:30; M F, 2-3  
2622 Piedmont av Bkly 4807
- †Redstone, A. E., Custodian of Whitaker's  
Forest  
Badger
- †Reed, H. S., Prof. of Plant Physiology in  
the Citrus Experiment Station and  
Graduate School of Tropical Agri-  
culture  
Citrus Experiment Station, Riverside
- \*†Reed, T. H., Assoc. Prof. of Government  
City Hall, San Jose
- Rehfsch, J. M., Asst. in Pathology and  
Bacteriology (M)  
852 Arlington rd Bkly 8539
- Reid, Miss E. C., Asst. in Psychiatry (M)  
766 Sutter st, S F Frkn 7866
- †Rhodes, M. T., Instr. in Clinical Dentis-  
try (D)  
First National Bank bldg Bkly 4800
- †Rhodes, R. C., Asst. in Zoology  
2550 Benvenue av
- Rice, M. A., Asst. in Agricultural Exten-  
sion  
4 AH
- Rich, Miss D., Stenographer, Dept. Agri-  
culture  
695 Fairmont av, O Pied 2661
- †Richards, R. L., Lectr. in Psychiatry (M)  
Talmage
- †Richardson, L. J., Assoc. Prof. of Latin  
476 W-M, 5; 23 L-Th, 6; S, 12  
2415 College av Bkly 5115
- †Rieber, C. H., Prof. of Logic  
4 P-M W F, 3-4  
15 Canyon rd Bkly 1060
- †Ringe, R. H., Reader in German  
441 W-Tu Th, 2-3  
910 Treat av, S F Msn 6539
- Risdon, Miss R. C., Asst. Physician for  
Women  
Inf-Tu, 3  
2611 Durant av Bkly 4525W
- †Ritter, W. E., Prof. of Zoology and Sci-  
entific Director of the Scripps Institu-  
tion for Biological Research  
La Jolla
- †Roadhouse, C. L., Assoc. Prof. of Veter-  
inary Science  
1 Budd-M, 9-12  
2539 Buena Vista way Bkly 714
- Roberts, Mrs. D. L., Chief Clerk, Dept.  
Agriculture  
1610 La Loma av Bkly 8664W
- Roberts, Miss M. I., Librarian's Secretary  
2251 Telegraph av Bkly 3471
- Roberts, W. C., Asst. in Soil Chemistry  
2704 Virginia st Bkly 4695W

- †Robertson, R. D., Instr. in Agr. Extension  
Chamber of Commerce, Stockton
- †Robertson, T. B., Prof. of Biochemistry (M)  
210 PL-M Tu W Th, 2-8  
2619 Regent st Bkly 307
- †Robinson, L. N., Instr. in Electrical Engineering  
4 M-Tu Th, 10-11  
2516 Virginia st Bkly 8480
- Robinson, Miss V., Reader in Mathematics  
2123 Kittridge st Bkly 8765
- †Robscheit, Mrs. F. S., Technical Asst. (HF)  
1482 Sutter st, S F Papt 650
- †Roger, J. H. D., Voluntary Asst. in Dermatology (M)  
350 Post st, S F Dgls 1908
- †Rogers, J. T., Farm Foreman  
University Farm, Davis
- †Rogers, S. S., Asst. Prof. of Olericulture  
University Farm, Davis
- Rohde, Miss A., Instr. in Research Medicine (HF) (M)  
191 Frederick st, S F Park 2306
- †Roller, O. P., Special Instr. in Dental Porcelain (D)  
Consolidated Realty bldg, Los Angeles
- Roof, Miss E. L., Instr. in Physical Education  
2 H-M W, 11; Tu, 9  
2708 Channing way Bkly 1832
- †Roop, W. P., Instr. in Physics  
204 S-Tu Th, 10; W, 2  
2523 Etna st Bkly 3823J
- Rose, R. S., Instr. in Spanish  
430 W-M W F, 12:30-1  
2327 Warring st Bkly 4848
- Rosencrantz, Miss E., Asst. in Medicine (M)  
729 Jones st, S F Frkn 2327
- Ross, J., Engineer, Scripps Institution for Biological Research  
La Jolla
- Rowe, H. J., Senior Asst. in Library  
5716 Genoa st, O Pied 3418W
- †Rowell, J. C., Librarian  
" 37 L-daily, 10-12  
3415 West st, O Pied 5264
- †Royce, R. P., Instr. in Animal Husbandry  
University Farm, Davis
- †Rubel, C. W., Asst. Prof. of Agricultural Extension  
826 Soto st, Hayward Hayward 176
- Rübke, F. W., Asst. in History  
2251 Telegraph av Bkly 3006J
- †Ruggles, H. E., Instr. in Surgery (M)  
233 Post st, S F Sutr 462
- †Rugh, C. E., Prof. of Education  
103 Cal-Tu W, 11-12; S, 10-11  
2228 Atherton st Bkly 6690
- †Rusk, G. Y., Assoc. Prof. of Pathology (M)  
1 HP-M, 8-9  
17 Panoramic way Bkly 2712
- Russell, H. O., Asst. in Physics  
2001 Allston way Bkly 6710
- Ryan, Miss L. M., Stenographer in Comptroller's Office  
1829 Rose st Bkly 8546W
- Ryder, A. W., Asst. Prof. of Sanskrit  
334 W  
2337 Telegraph av Bkly 5025W
- Sama, H. L., Clinical Instr. in Extracting (D)  
391 Sutter st, S F Grd 605
- †Sanford, T. F., Asst. Prof. of English Literature  
411 W-M W F, 1-2  
1030 Valjejo st, S F Papt 1561
- Sateramoen, Miss A., Nurse  
Infirmary Local 15
- †Sawyer, W. A., Clinical Prof. of Preventive Medicine and Hygiene (M); Secretary Cal. State Board of Health  
State Board of Health, Sacramento
- †Scammell, J. M., Asst. in History  
525 Oakland av, O Pied 329
- Scheele, N., Teaching Fellow in German  
441 W-M W F, 10; Tu Th, 3  
2544 Buena Vista way Bkly 5104J
- †Schevill, R., Prof. of Spanish  
427 W-M W, 10-10:30  
1308 Tamalpais rd Bkly 4460J
- †Schilling, H. K., Prof. of German Language and Literature  
401 W-M Tu Th F, 3-4; W, 1-2  
2316 LeConte av Bkly 1409
- Schlesinger, M. H., Asst. in Chemistry  
2600 Bancroft way Bkly 6819
- Schmidt, A. H., Asst. in German  
441 W-M W F, 10; Tu Th, 3  
Faculty Club Local 28 or Bkly 2855
- †Schmidt, C. L. A., Research Asst. in Pathology (M)  
2338 Roosevelt av Bkly 3897
- †Schmidt, R., Orchardist, Dept. Agriculture  
University Farm, Davis

- †Schmitt, L. S., Instr. in Dermatology and Secretary (M)  
U C Hospital, S F Snst 1155
- †Schneider, A., Prof. of Pharmacognosy, Economic Pharmaceutical Botany, History, and Bacteriology (Ph) and Instr. in Materia Medica (M)  
2626 Benvenue av Bkly 4895W
- †Schneider, F., Instr. in German  
403 W-M, 11-11:30; F, 3-3:30  
2610 Russell st
- †Scholz, R. F., Asst. Prof. of Ancient History  
30 W-daily, 9-9:30  
2605 Etna st Bkly 4563J
- Schulze, Miss E. M., Clerical Asst. in Library  
1018 E Seventeenth st, O Mer 3695
- Schumacher, Mrs. E. B., Asst. in Dept. Astronomy  
2276 Shattuck av Bkly 8300
- Schutz, M. H., Ophthalmologist in Infirmary  
Key Route Inn, O Oakd 5924
- †Scott, A. A., Mills Asst. in Astronomy (LO)  
Santiago, Chile
- Scott, E. C., Asst. in Chemistry  
2600 Bancroft way Bkly 6819
- Scott, Miss K. J., Instr. in Anatomy (M)  
4 Anat-M, 11-12  
1430 Spruce st Bkly 2978J
- †Scott, S. B., Asst. in Dental Porcelain (D)  
291 Geary st, S F Dgls 4271
- Searls, Miss M. L., Teaching Fellow in Geography  
7 Bacon-Tu Th, 3-3:30  
2817 Durant av Bkly 1270
- Searls, N. P., Instr. in Agr. Extension  
Woodland
- Seeborg, Miss K., Clerical Asst. in the Library  
93 Rose av, O Pied 8107
- †Seeger, C. L., Jr., Prof. of Music  
6 Music-W, 11-12; F, 10-11  
Buena Vista and La Loma avs Bkly 824
- Seekamp, Miss E., Copyholder, Printing Office  
1609 Bonita av Bkly 2117J
- †Senger, J. H., Prof. of German, Emeritus  
1321 Bay View pl Bkly 404
- Setchell, W. A., Prof. of Botany  
9 B-M W F, 10-12  
Faculty Club Local 28 or Bkly 2855
- †Severin, H. H., Instr. in Entomology  
206 AH-daily, 1-4  
2328 Grove st Bkly 7269
- Severns, Mrs. M. E., Matron in the College of Dentistry (D)  
306 Carl st, S F
- †Sharp, J. G., Prof. of the Principles and Practice of Surgery (D)  
Butler bldg, S F Dgls 3912
- †Sharp, L. T., Asst. Prof. of Soil Chemistry and Bacteriology  
5 Budd  
2406 Webster st Bkly 4842W
- †Sharp, W. F., Prof. of Clinical Prosthodontia (D)  
350 Post st, S F Grfid 820
- †Shaw, C. F., Prof. of Soil Technology  
17 Budd-M Tu Th F, 11-12  
1415 Euclid av Bkly 6541
- Shepard, Miss E. M., Clerk, Dept. Anthropology  
783 Fillmore st, S F Mrkt 3847
- Sherman, Miss E., Supt. of Infirmary  
Inf-daily, 9-12  
2216 College av Local 15
- †Shields, J. R., Engineer in Civil Engineering Testing Laboratory  
2119 McKinley av Bkly 2792W
- †Shook, F. M., Voluntary Asst. in Laryngology, Otology and Rhinology (M)  
Oakland Bank of Savings bldg, O Oakd 4009
- †Shorey, P., Sather Prof. of Classical Literature (to Dec. 31, 1916)  
University of Chicago, Chicago, Ill.
- Shuey, H. S., Special Lectr. in Economics  
Olympic Club, S F Pspt 4400
- †Shuquist, C. W., Mechanician in Dept. Botany  
El Cerrito
- †Simmons, H. M., Assoc. Prof. of Materia Medica and Pharmacy and Lectr. on Toxicology (Ph)  
Phelan bldg, S F Sutter 5069
- Simonton, F. V., Instr. in Operative Dentistry (D)  
1392 Tenth av, S F Snst 1975
- Simpson, L. B., Stockroom Asst., Dept. Physical Education  
2320 Bancroft way Bkly 1358J
- Singleton, Miss A. H., Stenographer, Dept. Agriculture  
Citrus Experiment Station, Riverside
- \*Singleton, Miss C. B., Instr. in French  
857 Goodfellow av, St. Louis, Mo.

- Sinsheimer, P. A., Special Lectr. in Economics  
3904 Clay st, S F Pac 5405
- †Slate, F., Prof. of Physics  
" 115 S-M Tu W Th, 10-10:15  
2231 College av Bkly 838
- Slusser, T. A., Jr., Attendant in Library  
521 Kempton av, O Oakd 1330
- †Smith, A., Asst. Prof. of Soil Technology  
18 FCL-daily, 9-10  
2515 Vine st Bkly 5529W
- †Smith, C. O., Instr. in Plant Pathology  
Whittier  
Smith, Miss E. H., Asst. Prof. of Plant Pathology  
308 AH-M Tu W F, 2-4  
2500 Bancroft way Bkly 1848
- †Smith, I. F., Cashier, Dept. Agriculture  
University Farm, Davis
- †Smith, P. E., Instr. in Anatomy (M)  
3 Anat  
1513 Scenic av Bkly 8767J
- †Smith, R. E., Prof. of Plant Pathology  
210 AH-daily, 11-12  
6134 Ocean View dr, O Pied 5172W
- †Smith, R. K., Asst. Clinical Prof. of Obstetrics (M)  
2600 Jackson st, S F Flmr 554
- Smithson, G. A., Instr. in English, University Extension  
2319 College av Bkly 2212
- ††Snyder, C. H., Lectr. in Civil Engineering  
204 CE-Tu Th, 11-11:30  
2713 Forest av Bkly 904
- Solomon, A., Instr. in French  
425 W-daily, exc. S, 11-11:30  
2001 Allston way Bkly 6710
- Spence, W. A., Stenographer, Dept. Mechanics  
2175 Steinway av, O Frvl 1742W
- †Spencer, G. Mechanician, Dept. Mining  
3100 Benvenue av Bkly 2854
- Spindt, H. A., Reader in History  
2600 Durant av Bkly 2593
- Sprague, Miss B., Librarian and Clerk, Dept. Architecture  
2019 Cedar st Bkly 1988W
- †Sproul, R. G., Asst. to the Comptroller  
220 Cal  
1403 Grant st Bkly 8436J
- Stadtmüller, Miss E. S., Asst. in Pediatrics (M)  
819 Eddy st, S F Frkn 553
- †Staehling, C. C., Instr. in Accounting  
120 W-daily, 10-12  
1437 LeRoy av Bkly 2816J
- †Stamper, W. R., Mechanician, Dept. Physics  
2454 Derby at Bkly 1907W
- †Stanton, J. A., Prof. of Drawing and Painting and Dean of the Faculty of the California School of Fine Arts (A)  
409 Melville av, Palo Alto
- Stebbins, Miss L. W., Dean of Women and Asst. Prof. of Social Economy  
205 Cal-M Tu Th F, 9-12: W, 3-4  
2731 Durant av Bkly 7386
- Steel, Miss C. M., Asst. in Recorder's Office  
2926 Wheeler st Bkly 4908W
- Steele, R., Helper in Zoology  
2320 Hilgard av
- †Steffan, J. F., Clinical Instr. in Operative Dentistry (D)  
362 Baker st, S F West 8438
- †Steindorff, P., Choragus  
5302 Broadway, O Pied 3485
- Steiner, Miss H. J., Clerk in Comptroller's Office  
5945 Keith av, O
- †Steinitz, O. G., Mechanician, Dept. Physics  
2128 McKinley av Bkly 8931W
- †Stephens, H. M., Sather Prof. of History  
" Faculty Club Local 28 or Bkly 6468
- †Stevens, F. C., Chief Clerk in President's Office  
219 Cal  
1240 Grove st Bkly 4511W
- Stevens, H. D., Stenographer, Dept. Agriculture  
1240 Grove st Bkly 4511W
- Stevens, Miss I. M., Asst. in Hygiene  
HP-M Tu W Th F, 2-4  
2608 Benvenue av Bkly 2295J
- Stevens, R. T., Asst. Prof. of Landscape Gardening and Floriculture  
304 AH-M W F, 11-12  
Berkeley Inn Bkly 6370
- †Stewart, G. R., Asst. Prof. of Agricultural Chemistry  
14 FCL  
2247 College av Bkly 3209
- Stiles, J. E., Asst. in Agricultural Extension  
4 AH
- Stockton, F., Asst. in Physics  
1805 Shattuck av Bkly 4114
- †Stoddard, T. A., Voluntary Asst. in Orthopedic Surgery (M)  
291 Geary st, S F Dgls 581



- †Stone, B., Asst. in Dermatology (M)  
4112 Twenty-fourth st, S F Msn 609
- \*Stone, Miss R. L., Edith Clappole Research Asst. in Pathology (M)  
1074 Dolores st, S F Valen 3697
- Stoodley, G. F., Dental Surgeon in the Infirmary  
2502 Bancroft way Bkly 2198
- Storer, T. I., Asst. Curator of Birds, California Museum of Vertebrate Zoology  
2611 Durant av Bkly 4525W
- †Stratton, G. M., Prof. of Psychology  
9 P-M W F, 1:15-1:45; Tu Th, 1:45-2:15  
55 Canyon rd Bkly 5854
- Stricklen, E. G., Instr. in Music  
5 Music-M, 11-12; F, 2-3  
472 Thirty-eighth st, O Pied 1587
- Strohmeier, Miss E. A., Mailing Clerk, Dept. Agriculture  
2314 Grove st Bkly 6883J
- Stuart, Miss A., Stenographer, University Extension  
979 Tenth st, O Oakd 2634
- †Stubenrauch, A. V., Prof. of Pomology  
101 AH-daily, exc. S  
2747 Woolsey st Bkly 3212
- Sturges, D. W., Asst. in Botany  
2431 Dana st Bkly 547W
- †Suggett, A. H., Prof. of Orthodontics (D)  
617 Butler bldg, S F Krny 1428
- Sullivan, Miss A. A., Nurse  
Infirmary Local 15
- †Sullivan, E. F., Instr. in Journalism, University Extension  
2571 Carlton st Bkly 8240W
- Summersgill, H. T., Supt. of the University Hospital (M)  
U C Hospital, S F Snst 1155
- †Sumner, F. B., Biologist in the Scripps Institution for Biological Research  
La Jolla
- †Sundstroem, E. S., Instr. in Biochemistry (M)  
4 PL  
459 Thirty-seventh st, O Pied 4468
- †Surr, J. G., Asst. Supt. of Cultivations, Dept. Agriculture  
1418 S Lime st, Riverside
- Sutton, J., Recorder of the Faculties  
m 204 Cal  
2301 Prospect st Bkly 2068
- Swain, A. F., Asst. in Entomology at the Citrus Experiment Station and Graduate School of Tropical Agriculture  
Citrus Experiment Station, Riverside
- †Swarth, H. S., Curator of Birds, Cal. Museum of Vertebrate Zoology  
2906 Pine av
- Sweeney, Miss M. A., Technical Asst. (HF)  
U C Medical School, S F Snst 1151
- Sweet, W. L., Asst. in Pomology  
101 AH-daily, 1-3  
2536 Bancroft way Bkly 7997
- Swezy, Miss O., Zoologist and Librarian, Scripps Inst. for Biological Research  
La Jolla
- Symons, S. W., Asst. in Psychology  
2001 Allston way Bkly 6710
- Taber, S. S., Artist and Helper, Scripps Inst. for Biological Research  
La Jolla
- Tabor, Miss A. P., Asst. in German  
403 W-M Tu F, 2-2:30  
Glengary apts Bkly 4438
- †Tait, D., Asst. in Surgery (M)  
928 Butler bldg, S F Dgls 2518
- Talbot, J. F., Storekeeper, and Helper, Dept. Mining  
22 HM
- †Tasheira, A. G., Lectr. in Law  
105 Boalt-Th, 4  
635 Walsworth av, O Pied 2784
- Tavernetti, T. F., Asst. to Dean of the Univ. Farm School  
P. O. Box 423, Davis
- Taylor, C. V., Asst. in Zoology  
2740 College av Bkly 4997J
- Taylor, Miss E. E., Instr. in Textiles  
304 HE-Tu Th, 11-12  
1701 Euclid av Bkly 2092J
- †Taylor, E. R., Prof. of Law and Dean of the Hastings College of the Law (H)  
457 City Hall, S F Mrkt 1807
- Taylor, J. S., Teaching Fellow in Mathematics  
420 W  
2207 Atherton st Bkly 9144W
- Taylor, R. H., Asst. Prof. of Pomology  
101 AH-Tu Th, 11-12  
2001 Allston way Bkly 6710
- Tays, Miss L., Asst. in Romanic Languages  
2643 Channing way Bkly 2276W
- Tebbs, Miss M., Stenographer, Dept. Agriculture  
1739 Milvia st Bkly 2808
- †Teggart, F. J., Assoc. Prof. of History  
30 W  
2621 Rose st Bkly 2470

- †Terry, W. I., Prof. of Surgery and Vice Dean (M)  
240 Stockton st, S F Krny 25
- Thacher, T. A., Asst. Prof. of Law (H)  
Merchants Exchange bldg, S F Sutr 2725
- Thomas, C. D., Foreman, Dept. Agriculture  
University Farm, Davis
- †Thomas, E. E., Asst. Chemist, Dept. Agriculture  
So. Cal. Path. Lab., Whittier
- †Thomas, J. B., Asst. in Laryngology, Otology and Rhinology (M)  
Frazer bldg, Palo Alto Palo Alto 892W
- ††Thomas, W. S., Asst. Prof. of Education and Examiner of Schools  
2337 Eunice st Bkly 1998
- †Thompson, J. I., Asst. Prof. of Animal Husbandry  
University Farm, Davis
- †Thomson, H. S., Instr. in Surgery (M)  
2539 College av Bkly 6715
- Thone, F. E. A., Sec. and Research Asst. to the Director, Scripps Inst. for Biological Research  
La Jolla
- †Thorpe, T. D., Asst. Prof. of Military Science and Tactics  
Armory-M W, 9-11  
2546 Etna st Bkly 5068J
- Titus, C. M., Instr. in Mathematics (FS)  
University Farm, Davis
- †Topham, E., Asst. in Obstetrics and Gynecology (M)  
126 Stockton st, S F Sutter 477
- Torrey, C. M., Secretary to the President (absent on leave, first half-year; resigned Dec. 31, 1916)  
Care State Dept., Washington, D. C.
- Torrey, Miss F. E., Stenographer and Librarian, Dept. Zoology  
2208 Parker st Bkly 5188
- †Tour, R. S., Asst. Prof. of Gas Engineering  
28 M-M W F, 10-11; Tu Th, 4-5  
2312 Prince st Bkly 6426W
- †Traum, J., Asst. Prof. of Veterinary Science  
1 Budd  
2202 Blake st
- †Trutner, H., Jr., Asst. in Dept. Military Science  
5429 Lawton av, O Pied 4783J
- †True, G. H., Prof. of Animal Husbandry  
University Farm, Davis
- †Tucker, R. H., Astronomer (LO)  
Mt. Hamilton
- †Tufts, W. P., Instr. in Pomology  
University Farm, Davis
- †Turner, L. M., Asst. Prof. of French  
463 W-Tu Th, 9  
2707 Virginia st Bkly 7896
- Turner, Mrs. P., Clerk in Comptroller's Office  
2400 Durant av Bkly 7954
- Unterman, Miss E., Stenographer, Dept. Agriculture  
1920 University av Bkly 7586
- †Upton, C. O., Dairy Foreman  
2218 Dana st Bkly 8267
- †Uren, L. C., Instr. in Mining and Mechanical Draftsman  
222 HM-M W F, 9-10; Tu Th, 2-3  
2810 Piedmont av Bkly 7575W
- Usher, R. J., Supt. of Circulation, Library  
2511 Durant av Bkly 6081W
- Utterback, Miss S. M., Clerk in Comptroller's Office  
2214 Grant st Bkly 4517
- †Vaile, R. S., Asst. Prof. of Orchard Management in the Citrus Experiment Station and Graduate School of Tropical Agriculture  
182 Ramona dr, Riverside
- Valentine, Miss E. S., Voluntary Asst. in Pediatrics (M)  
102 Crocker av, P Pied 2695
- †Van Dyke, E. O., Asst. Prof. of Entomology  
9 AH-daily, exc. S, 11-12  
1545 LeRoy av Bkly 9385
- van Erp, Miss A., Instr. in Handicraft (A)  
1331 Valjejo st, S F Frkn 434
- †Van Fleet, A. C., Asst. Prof. of Law (H)  
68 Post st, S F Krny 988
- van Haren, Miss E., Asst. in Recorder's Office  
2311 Hilgard av Bkly 7195
- Vanleer, B. R., Instr. in Mechanical Engineering  
27 M-daily, 10-11  
2218 Durant av Bkly 1934
- †Van Norman, H. E., Prof. of Dairy Management, Vice-Director of Agr. Exper. Sta. and Dean of Univ. Farm School  
University Farm, Davis

† Absent visiting schools second half-year.

- Van Sloun, F. J., Prof. of Drawing and Painting (A)  
1617 California st, S F Frkn 8268
- †von Hoffman, C. A., Prof. of Gynecology, Emeritus (M)  
210 Post st, S F Sutter 1799
- †von Hungen, Mrs. M. J., Asst. in German  
1513 Walnut st Bkly 3589
- †von Neumayer, C. D., Asst. Prof. of Public Speaking  
423 W-M, 1-3; Tu Th, 2; W, 3  
2836 Garber st Bkly 8562J
- Voorhies, E. C., Instr. in Animal Husbandry  
University Farm, Davis
- Wadsworth, H. A., Asst. in Irrigation Investigations  
University Farm, Davis
- Wadsworth, L. A., Asst. in Physics  
2600 Durant av Bkly 2593
- Walden, R. C., Clerk, Office of Supt. of Grounds and Buildings  
1609 Virginia st
- †Walker, E. L., Assoc. Prof. of Tropical Medicine (HF) (M)  
1452 Willard st, S F Mrkt 2613
- Walker, Miss H. A., in charge of Herbarium, Dept. Agriculture  
2212 Union st Bkly 7611
- Walker, J. H., Bookkeeper, University Extension  
2216 Channing way Bkly 5631
- Wapple, A. R., Teaching Fellow in Mathematics  
420 W-Tu Th S, 10-11  
1650 Fulton st, S F
- †Warburton, A., Preparator in Anthropology  
431 Anza st, S F Pac 186
- †Washburn, H. L., Asst. in Agr. Extension  
21 AH
- †Washburn, O. M., Asst. Prof. of Classical Archaeology  
2 Mus  
30 Arden rd Bkly 2221
- †Wasteney, H., Assoc. Prof. of Pharmacology (M)  
109 PL-daily, 9-12  
1585 LeRoy av Bkly 3220
- †Waterman, T. T., Asst. Prof. of Anthropology  
6 Mus-M, 10-11  
2804 Cherry st Bkly 6145W
- Watson, Miss F. E., Technical Asst. (HF)  
2814 Hilgard av Bkly 4033J
- Watters, Miss E. M., Asst. in Pediatrics (M)  
240 Stockton st Grfd 210
- Watts, A. P., Asst. in History  
2400 Durant av Bkly 7954
- †Way, A. E., Field Asst. in Viticulture, Dept. Agriculture  
Kearney Park
- †Webber, H. J., Prof. of Plant Breeding, Director of Citrus Exper. Sta., and Dean of Graduate School of Tropical Agriculture  
Citrus Experiment Station, Riverside
- †Weber, H. J., Assoc. Prof. of German  
402 W-M W F, 8:45-9; Tu Th, 10:45  
11  
1811 La Loma av Bkly 7494
- †Weeks, A., Instr. in Surgery (M)  
850 Post st, S F Krny 49
- †Weeks, W. S., Assoc. Prof. of Mining  
101 HM-M W F, 9-10  
1581 LeRoy av Bkly 7829J
- †Weinland, H. A., Instr. in Agricultural Extension  
Court House, San Diego
- †Weir, W. W., Drainage Expert, Dept. Agriculture  
5534 Taft av, O Pied 6461
- †Welles, Mrs. A. L., Stenographer in Secretary's Office  
816 Contra Costa av Bkly 7911J
- †Wells, C. W., Assoc. Prof. of English Composition  
450 W-M W F, 2:30-3  
2243 Piedmont way Bkly 5543
- Welsh, Miss I. M., Clerk in Comptroller's Office  
322 Twentieth st, R Rchd 466
- Wepfer, Miss C. G., Stenographer in Dept. Agriculture  
1838 Cedar st Bkly 4098W
- Whallon, Miss A. W., Stenographer, Dept. Agriculture  
692 Sixth st, O
- †Wheeler, B. I., President of the University  
" 217 Cal-Office hrs. for students: daily, exc. Tu, 9:45-10:15  
President's House Bkly 7100
- †Whipple, G. H., Prof. of Research Medicine (M) (HF); Director of the Hooper Foundation for Medical Research (HF)  
176 Edgewood av, S F Mrkt 4688
- †White, B. F., University Photographer  
402 CE  
2941 Linden av

- White, Mrs. M. D., Asst. Cashier, Dept. Agriculture  
University Farm, Davis
- White, S. A., Voluntary Asst. in Pediatrics (M)  
417 Clayton st, S F Park 1017
- †Whitehouse, Mrs. S. P., Telephone Operator  
636 Poirier st, O
- Whitman, Mrs. P. C., Technician, Dept. Pathology (M)  
1398 Fifth av, S F
- †Whitney, J. L., Instr. in Medicine (M)  
223 Harrison av, Sausalito Sausalito 293
- Wickham, R., Technician, Dept. Pathology (M)  
1629 Parker st
- †Wickson, E. J., Prof. of Horticulture, Emeritus  
2723 Bancroft way Bkly 8891
- †Wiggs, Mrs. C. M., Stenographer in Dept. Agriculture  
1039 Mariposa av Bkly 1088J
- Wilbur, Miss L., Technician in Dept. Dermatology (M)  
1365 Sixth av, S F Snst 3182
- †Wiley, H. R., Lectr. on Pharmacal Jurisprudence (Ph)  
Berkeley National Bank bldg Bkly 5886
- Wilkie, Mrs. E., Asst. in Office of University Press  
2509 Cedar st Bkly 6116
- †Wilkie, N. P., Clerk in Dept. of Mining  
2331 Telegraph av, O Lksd 8639
- †Willard, W. P., Instr. in Urology (M)  
177 Post st, S F Dgls 5726
- †Williams, A. J., City Buyer in Comptroller's Office  
2935 Otis st
- Williams, A. R., Lectr. in Mathematics  
220 W-M Th, 2  
2415 Durant av Bkly 1712
- Williams, C. J., Asst. in Agricultural Extension  
4 AH
- Williamson, Miss A., Stenographer, Dept. Agriculture  
1522 Arch st Bkly 3695
- †Willis, Mrs. K. M., Instr. in Costume Design (A)  
58 Liberty st, S F Msn 693
- †Willoughby, E. P., Helper in Mining  
2538 Buena Vista way Bkly 5027W
- †Wilson, R. E., Acting Astronomer in charge of D. O. Mills Expedition (LO)  
Santiago, Chile
- Windrom, Miss R., Helper in Dept. Pathology (M)  
2410 Fifth st Bkly 5194W
- Winkler, J. T., Asst. in Chemistry  
2214 Union st Bkly 2483
- †Wiskocil, C. T., Instr. in Civil Engineering  
106 CE-M, 11-12: F, 10-11  
2689 Cedar st Bkly 2002J
- Wittchen, Miss B., Clerk, Printing Office  
3121 West st, O Pied 3148W
- Wobus, W. W., Asst. in Agricultural Education  
2001 Allston way Bkly 6710
- †Woll, F. W., Prof. of Animal Nutrition  
University Farm, Davis
- Wood, Mrs. M. E., Stenographer, University Extension  
2500 Bancroft way Bkly 1848
- †Woodbridge, F. J. E., Lectr. in Philosophy on the Mills Foundation  
414 W-M W, 11  
Cloyne Court Bkly 4710
- Woods, B. M., Asst. Prof. of Theoretical Mechanics and University Examiner  
207 Cal-M W F, 9-11; Tu Th, 10-11  
3038 Hillegass av Bkly 1326J
- Woods, Miss J. B., Asst. to Secretary of Medical School (M)  
3637 Twenty-first st, S F Msn 3811
- †Woodworth, C. W., Prof. of Entomology  
201 AH  
2237 Carlton st Bkly 2154
- Woolsey, J. H., Asst. in Surgery (Asst. Resident U C Hospital) (M)  
U C Hospital, S F Snst 1155
- †Wright, A. T., Assoc. Prof. of Law  
216 Boalt-M W F, 9-10; Tu Th, 10-11  
11 Panoramic way Bkly 6966J
- †Wright, H. N., Instr. in Mathematics  
415 W-Tu Th, 9-10; M W F, 10-10:30  
2409 Dwight way Bkly 6107W
- †Wright, H. W., Voluntary Asst. in Orthopedic Surgery (M)  
516 Sutter st, S F Grfid 2336
- †Wright, W. C., Asst. in Dental Porcelain (D)  
350 Post st, S F Grfid 1958
- †Wright, W. H., Astronomer (LO)  
Mt. Hamilton

- |   |  |
|---|--|
| Wulzen, Miss R., Instr. in Physiology (M) | †Young, H. D., Asst. in Agricultural Chem- |
| 204 PL-M W, 2-4                           | istry                                      |
| 2447 Carlton st                           | Southern California Pathological Lab-      |
| Bkly 6581W                                | oratory, Whittier                          |
| Wythe, Miss M. W., Asst. in Calif.        | †Zinn, C. J., Asst. in Soil Technology     |
| Museum of Vertebrate Zoology              | 17 Budd                                    |
| 4247 Terrace st, O                        | Oxford apts                                |
| Pied 7285W                                | Bkly 9341J                                 |
| †Wythe, W. J., Asst. Prof. of Mechanical  | Zion, J. R., Asst. in Viticulture          |
| Drawing                                   | 2400 Durant av                             |
| 301 D-M Tu Th F, 2-4                      | Bkly 7954                                  |
| 15 Hill rd, O                             | †Zumwalt, F. H., Asst. in Dermatology (M)  |
| Pied 5791                                 | 135 Stockton st, S F                       |
| Yocom, H. B., Asst. in Zoology            | Dgls 2806                                  |
| 2248 Telegraph av                         | Bkly 9011                                  |

## STUDENTS IN THE UNIVERSITY

## A. THE COLLEGES AT BERKELEY

Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil  
Engineering, Chemistry, Architecture, Education, Jurisprudence  
and the first two years in Medicine

## 1. GRADUATE STUDENTS

Abbott, Constance B.	Claremont	Aldridge, Esther Evaline	Los Angeles
A.B. (Pomona College) 1916		A.B. (University of Michigan) 1904	
1 LS-2314 Haste st	Bkly 4026	<sup>1</sup> 1 LS-2721 Channing way	Bkly 1577
Abbott, Raymond Barrington	Berkeley	Allan, Evelyn Wight	Berkeley
B.S. 1908; M.S. 1912		B.S. (St. Lawrence University) 1891;	
3 LS-1803 Cedar st	Bkly 2084	A.B. (Stanford University) 1896	
Ackerman, Phyllis	Oakland	<sup>2</sup> 1 LS-2442 Bowditch st	Bkly 4991J
B.L. 1914; M.A. 1915; cand. Ph.D.		Allen, Fred Harold	Berkeley
(philosophy)		B.S. 1913; M.A. 1916	
3 LS-2333 Channing way	Bkly 8193	3 LS-1539 Spruce st	Bkly 5346J
Adams, Elliot Quincy	Medford, Mass.	Alter, Dinamore	Berkeley
B.S. (Massachusetts Institute of Technol-		B.S. (Westminster College) 1909; M.S.	
ogy) 1909; Ph.D. 1914		(University of Pittsburg) 1910	
5 Chem-2642 Bancroft way	Bkly 653	<sup>1</sup> 3 LS-1408 Henry st	Bkly 1192J
Adams, Harry Vaughn	Alameda	Ames, Alma Union	Oakdale
A.B. 1916		B.S. 1914; M.A. 1916	
<sup>1</sup> 1 LS-2601 Durant av	Bkly 23	2 LS-2219 Channing way	Bkly 8668W
Adamsen, Edith Vera	Long Beach	Ames, Charles	Marcus, Iowa
A.B. 1915		A.B. (State University of Iowa) 1910	
1 LS-2901 Hillegass av	Bkly 5385W	4 LS-2001 Channing way	Bkly 315
Adrian, Guy Webb	Bryan, Texas	Amiot, Alice Blanche	Berkeley
B.S. (Agricultural and Mechanical Col-		A.B. 1915	
lege of Texas) 1915		<sup>1</sup> 2 LS-749 Sixty-first st, O	
1 Agr-2330 Telegraph av	Bkly 4429	Anderson, Adolph Edmund	Stockton
Ainslie, Kate Elizabeth	Danville	A.B. 1908	
B.S. (Carlton College) 1908		2 LS-2322 Cedar st	Bkly 2048
1 LS-2614 Dana st	Bkly 8982J	Anderson, Agatha Totton	Los Angeles
Aiton, Arthur Scott	Alameda	A.B. (University of Nebraska) 1906	
A.B. 1916		<sup>1</sup> 1 LS-2616 Hilgard av	
<sup>1</sup> 1 LS-1240 Broadway, A	Ala 2016	Anderson, Hallam Hans	Los Angeles
Akers, Mabel Allen	Visalia	B.S. 1915 and M.A. 1916 (University of	
A.B. 1916		Southern California)	
1 LS-2432 Virginia st	Bkly 4179	1 LS-2628 Durant av	Bkly 4772
Albright, George Leslie	Bishop	Anderson, Samuel*	Los Angeles
B.L. 1914; M.A. 1916; cand. Ph.D.		A.B. (University of Nebraska) 1903	
(history); N. S. G. W. Fellow		1 LS-2616 Hilgard av	
<sup>1</sup> 3 LS-died December 15, 1916			

- Andreason, Anne Berkeley  
B.L. 1914  
1 LS-2835 Benvenue av Bkly 6215W  
Andrews, Julia Lillius Upland  
A.B. (Pomona College) 1916  
1 LS-2508 Haste st Bkly 2075  
Angst, Laura Chehalis, Wash.  
A.B. (University of Washington) 1915  
\*1 Agr-458 Castro st, S F  
Arndt, Stanley Morris Stockton  
B.S. 1915  
2 Juris-2519 Durant av Bkly 8548  
Arnot, Philip Howard Placerville  
A.B. 1916  
2 Med-1251 Second av, S F Snst 1810  
Ashford, Huron K. Honolulu, T. H.  
B.L. 1914  
1 Juris-2515 LeConte av Bkly 6994  
Atkinson, Dorothy Wells Tacoma, Wash.  
A.B. 1916  
2 Med-1278 Fourth av, S F Snst 716  
Atkinson, Florence Edith Petaluma  
B.L. 1905; M.L. 1906  
\*3 LS-2735 Durant av Bkly 3867  
Ayers, Thomas Fred San Francisco  
B.S. 1914  
2 Med-1006 Page st, S F Park 4700  
Aylward, Fred Nelson Fort Bragg  
A.B. 1916  
\*1 Agr-2626 Channing way Bkly 3021W  
Badgley, Ilma Lotta Sonora  
A.B. 1916  
1 LS-2505 College av Bkly 808  
Baer, Lucy Schall Berkeley  
A.B. 1915  
2 LS-1643 Walnut st Bkly 6180  
\*Bailev, Ernest Winfield Urbana, Ill.  
B.S. (Massachusetts Agricultural College) 1908; B.S. (Boston University) 1908; M.S. (University of Illinois) 1909  
1 Agr-University of Illinois, Urbana, Ill.  
Bair, William Harry Ruffsedale, Pa.  
B.S. (Ohio Northern University) 1908; M.S. (University of Illinois) 1912  
3 LS-2248 Telegraph av Bkly 9011  
Baker, Florence Margaret Salinas  
A.B. 1916  
\*1 LS-2749 Dwight way Bkly 204  
Baldwin, John Sears New York, N. Y.  
A.B. (Columbia University) 1916  
\*1 LS-1715 La Loma av Bkly 4844  
Balensiefer, Florence Marie Oakland  
A.B. (St. Mary's College, Notre Dame, Indiana) 1918  
\*1 LS-5643 Shafter av, O Pied 5825W  
Ball, Dexter Rankin Santa Ana  
A.B. 1916  
1 Med-2647 Durant av Bkly 102  
Ballou, Rose Young Tempe, Ariz.  
A.B. (University of Illinois) 1910  
\*1 LS-2322 Russell st  
Balmat, Clara Emma Pomona  
A.B. (Pomona College) 1916  
\*1 LS-2406 Bancroft way Bkly 6428  
Bangs, Gertrude Van Dyke Oakland  
A.B. 1916  
\*1 LS-132 Ninth st, O Oakd 4691  
Bangs, Jane Birdsall Berkeley  
A.B. 1916  
1 LS-2800 Warring st Bkly 5496J  
Banks, Kathrina Olga Williams  
A.B. 1906  
6 LS-1824 Hearst av Bkly 2194  
Bannick, Christian John Palo Alto  
A.B. (Stanford University) 1916  
1 LS-2101 Telegraph av, O Lksd 1700  
Bardellini, Anna V. Meyer Oakland  
A.B. (State University of Iowa) 1914  
1 LS-5237 College av, O Pied 1561  
Barkley, Ella McLaughlin Glenn  
A.B. (Southwestern University) 1912  
1 LS-2526 California st  
Barlow, Anna Maude Sebastopol  
A.B. 1916  
1 LS-2736 Haste st Bkly 8680  
Barnes, Jesse Wright Mobile, Ala.  
Cand. A.B. May, 1917 (work completed December, 1916)  
\*1 LS-2600 Bancroft way Bkly 6819  
Barnes, Walter Carl Berkeley  
A.B. (Colorado College) 1912; A.B. (Oxford University) 1916  
\*2 LS-2239 Parker st Bkly 2495W  
Barnes, William Hutt Berkeley  
A.B. (Stanford University) 1916  
1 LS-2438 Durant av Bkly 4267  
Barnum, Mildred Effie Albion, N. Y.  
A.B. (Oberlin College) 1914  
2 LS-Calif. School for the Deaf and the Blind Bkly 3  
Barrett, Helen Cook Chula Vista  
A.B. (University of Michigan) 1910  
\*2 LS-Hotel Stewart, S F Dgls 500  
Barrington, Thomas Winslow Cambridge, Mass.  
B.S. 1910 and M.E. 1911 (Harvard University)  
\*1 Min-1604 Scenic av Bkly 2780  
Barrows, Eleanor Agnes Berkeley  
A.B. (Smith College) 1911  
2 LS-1540 Hawthorne ter Bkly 8854J  
Barstow, James Townsend Fresno  
A.B. 1916  
2 Juris-2318 Telegraph av Bkly 5964  
Barter, John Douglas Mirror Lake, B. C.  
A.B. (University of Toronto) 1909; cand. Ph.D. (mathematics)  
2 LS-2705 Hearst av Bkly 745W

- Barton, Chandler Parks Los Angeles  
A.B. 1916  
1 LS-2830 Telegraph av Bkly 4429  
Batdorf, Sam Francis Berkeley  
A.B. 1915  
12 LS-1731 University av  
Bathgate, Violet May Orange  
B.S. 1912; M.S. 1913  
3 LS-1429 Hawthorne ter Bkly 6420J  
Baxter, Georgia Louise Berkeley  
A.B. (University of Denver) 1914  
2 LS-2635 Hillegass av Bkly 2491J  
Beam, Edith Hayward  
B.L. (Mills College) 1915  
1 LS-2815 Forest av Bkly 6553W  
Bean, Arthur Malcolm Laguna Beach  
A.B. (Grinnell College) 1897; M.A. (Cornell University) 1903  
1 LS-2811 Benvenue av Bkly 7692  
Beattie, Margaret Isabel San Jose  
A.B. 1915  
2 LS-2608 Benvenue av Bkly 2295J  
Beauman, Loui Charles Berkeley  
A.B. 1916  
2 Juris-2251 College av Bkly 9107  
Becker, John Howard Claremont  
A.B. (Pomona College) 1911  
2 LS-2411 Durant av Bkly 474  
Beede, Lillian Elizabeth Whittier  
A.B. (Occidental College) 1915  
1 LS-2428 Channing way Bkly 6408  
Bell, Edith Merryl Oakland  
A.B. 1915  
1 LS-2214 Durant av Bkly 8668J  
Belt, Arthur Elmer Los Angeles  
A.B. 1916; Research Fellow on the  
Hooper Foundation, second half-year  
1 LS and 2 Med-1367 Third av. S F  
Snt 2247  
Bemis, Mary Seoville Waupaca, Wis.  
A.B. (University of Wisconsin) 1915  
1 LS-547 Twenty-fourth st. O Lksd 4275  
Benedict, Ruth Lathrop Berkeley  
A.B. 1916  
1 LS-2600 Hilgard av Bkly 5747  
Benjamin, Marie Berkeley  
A.B. 1916  
1 LS-2023 Channing way Bkly 7556  
Benton, Ralph Los Angeles  
B.S. (Montana State College) 1906; B.L.  
1907; M.S. 1909; M.A. (University  
of Southern California) 1914; cand.  
Ph.D. (zoology)  
16 LS-2074 W. Twenty-seventh st, Los  
Angeles  
Berry, Julius Trousdale Hollywood  
A.B. (Cornell University) 1911  
1 Juris-Shattuck Hotel Bkly 7300  
Bickford, Belle Elliott Salt Lake City, Utah  
A.B. 1915  
2 LS-2725 Prince st Bkly 4541W  
Billington, Susan Jeanette Upland  
A.B. (Pomona College) 1916  
1 LS-2527 Hearst av Bkly 765  
Billman, Howard Dwight Los Angeles  
A.B. (Dartmouth College) 1905; M.A.  
(University of Chicago) 1913  
13 LS-2223 Atherton st Bkly 6680  
Bird, Grace Van Dyke Salt Lake City, Utah  
B.S. 1914  
1 LS-2644 Etna st Bkly 9111W  
Bisson, Charles Stewart Berkeley  
B.S. 1915; M.S. 1916  
2 Chem-1734 Channing way Bkly 1688W  
Black, Edith Virginia Fellows  
A.B. 1916  
1 LS-2434 Bowditch st Bkly 6384  
Blayne, Edwin Forrest Berkeley  
A.B. 1908 and M.A. 1906 (Washington  
and Jefferson College); cand. Ph.D.  
(education)  
2 LS-2329 Dwight way Bkly 719W  
Bledsoe, R. Page Berkeley  
A.B. (Washington and Lee University)  
1908; M.S. (University of Wisconsin)  
1913; University Fellow in Agronomy  
1 Agr-Faculty Club Bkly 2855  
Bliss, Howard Hamilton Oakland  
B.S. 1909; M.S. 1913  
3 LS-3010 Colby st Bkly 7136W  
Boalt, Marian Griswold Oakland  
A.B. (Lake Erie College) 1904  
1 LS-Mills College, O Elm 10  
Boas, George New York, N. Y.  
A.B. and M.A. 1918 (Brown University);  
M.A. (Harvard University) 1914;  
cand. Ph.D. (philosophy)  
1 LS-2704 Virginia st Bkly 4695W  
Boeck, William Charles Berkeley  
B.S. (Carleton College) 1915; M.A.  
1916; cand. Ph.D. (zoology)  
2 LS-2611 Durant av Bkly 4525W  
Boettler, Frederick William St. Louis, Mo.  
B.S. 1909 and M.A. 1915 (Washington  
University); Flood Fellow  
1 LS-2723 Forest av  
Bolt, Richard Arthur San Jose  
A.B. 1904 and M.D. 1906 (University of  
Michigan)  
1 LS-2590 Buena Vista way  
Bomgardner, Esther Maria San Diego  
A.B. 1914  
1 LS-2505 College av Bkly 808  
Bond, Rowena Seattle, Wash.  
A.B. (University of Washington) 1910  
1 LS-2527A Hearst av  
Boothe, Geraldine Petaluma  
A.B. 1916  
1 LS-1637 Oxford st Bkly 2087J  
Borgstrom, Parry Cheney, Wash.  
B.S. (Whitman College) 1915; M.S. 1916  
2 Chem-2001 Allston way Bkly 6710



- Borum, Jean Frances Selma  
A.B. 1916  
1 LS-1707 Euclid av Bkly 7844J
- Bouton, Craig Miller Berkeley  
A.B. 1904 and M.A. 1916 (University of Colorado)  
1 Chem-2803B Parker st  
Bowers, Blanch Oakland  
B.L. 1909  
1 LS-1702 Thirteenth av, O Mer 4065
- Bowles, Carl Percy Cherryfield, Me.  
A.B. 1914  
1 LS-1841 Marin av Bkly 4461W
- Bowman, Henry Clare Mendocino  
B.S. 1916  
1 Agr-2027 Delaware st Bkly 8712
- Boyle, Catherine Josephine San Francisco  
A.B. 1916  
1 LS-155 Lowell st, S F Randolph 1875
- Boyle, Louis Franklyn Murray, Utah  
B.S.A. (Cornell University) 1910  
12 Agr-2124 Kittridge st Bkly 1229J
- Braden, Alfred Taylor Duluth, Minn.  
B.Ch.E. (University of Michigan) 1913  
1 Chem-2532 Bancroft way Bkly 3012
- Bradley, Dolores Elizabeth Alameda  
B.S. 1912  
2 LS-1606 Morton st, A
- Bradley, Walter Wadsworth San Jose  
B.S. 1901  
2 Min-1537 Bonita av Bkly 4450W
- Bradway, Omar Fred Hollywood  
A.B. 1915  
1 LS-2530 Ridge rd Bkly 775W
- Braese, Ebba San Francisco  
A.B. 1915; M.A. 1916  
2 LS-2620 Folsom st, S F Val 4244
- Branch, Harriot Esther Berkeley  
B.S. (University of Liverpool) 1912  
1 LS-1530A Hawthorne ter
- Bransford, Alice Susanna Red Bluff  
A.B. 1916  
1 LS-1809 Euclid av Bkly 1615
- Brayton, Helen Lucille Long Beach  
A.B. 1916  
1 LS-2401 Durant av Bkly 6681
- Breed, Noel Jerub Berkeley  
A.B. (Grinnell College) 1912  
12 LS-1617 La Loma av
- Brewer, Hazel Marantha Pomona  
A.B. (Pomona College) 1916  
1 LS-1739 Euclid av Bkly 493
- Bridgett, Eveline Louise San Francisco  
B.S. 1913; M.L. 1914  
18 LS-544 Clayton st, S F Park 4982
- Briggs, Alfred Poynear Los Angeles  
B.S. (University of Colorado) 1912  
2 Med-1251 Second av, S F Snst 1810
- Briggs, Ellen Green Berkeley  
B.L. 1915  
12 LS-1636 Walnut st Bkly 2717
- Brighton, Thomas Bow Salt Lake City, Utah  
B.S. (University of Utah) 1913; M.S.  
1916; cand. Ph.D. (physical chemistry)  
3 Chem-1938 $\frac{1}{2}$  Delaware st
- Bristol, Gertie Hazel Claremont  
A.B. (Pomona College) 1916  
1 LS-2434 Piedmont av Bkly 8341
- Bronson, Bertram Bethuel Alameda  
A.B. (Nazarene University) 1915  
12 LS-1235 Park av, A Ala 338
- Brown, Allen Button Berkeley  
A.B. 1915  
12 Arch-2529 Hearst av Bkly 40
- Brown, Benjamin Franklin Berkeley  
A.B. (University of Colorado) 1912  
12 LS-2123 Durant av Bkly 3461
- Brown, Edith Louisa Gazelle  
B.S. 1908; M.S. 1909  
2 LS-2233 Ellsworth st Bkly 295W
- Brown, Everett Somerville Antioch  
B.L. 1907; M.L. 1908; cand. Ph.D.  
(history)  
4 LS-1548 LeRoy av Bkly 5344J
- Brown, John Stewart, Jr. Suvaun  
A.B. 1916  
11 LS-2712 College av Bkly 6968
- Brown, Kearn Babcock Palo Alto  
Ph.B. (Alfred University) 1912; M.A.  
(Stanford University) 1916  
11 Agr-3717 Grove st, O
- Brown, Marion Agnes Alameda  
A.B. 1916  
1 LS-1608 Chestnut st, A Ala 2666
- Brown, William Byron Oakland  
A.B. 1916  
1 LS-479 Thirty-fourth st, O Pied 6334W
- Brownlee, Robert Earl Silver City, N. M.  
A.B. 1916  
1 LS-2333 Channing way Bkly 6062
- Bruck, Edwin Louis St. Helena  
A.B. 1916  
2 Med-1251 Second av, S F Snst 1810
- Bruckman, Bettina San Francisco  
A.B. 1916  
1 LS-1361 California st, S F Frkn 1555
- Brunquist, Harriet Louise Hood River, Ore.  
A.B. (Wellesley College) 1905  
11 LS-2114 Durant av Bkly 7426J
- Brush, Frank Spencer Berkeley  
A.B. 1878 and D.D. 1897 (Marietta College)  
1 LS-1929 Eldorado av Bkly 5089
- Buck, Verne Whittier  
A.B. (Whittier College) 1916  
1 LS-2531 Ridge rd Bkly 6485
- Buckham, Margaret Berkeley  
A.B. 1913  
13 LS-36 Panoramic way Bkly 5822

- Bulson, Dorothy Ede                      Riverside  
A.B. 1916  
1 LS-2627 Hearst av                      Bkly 3229  
Burgevin, Leslie Gale                      Louisville, Ky.  
A.B. (Harvard University) 1915; M.A.  
1916  
2 LS-2544 Buena Vista way              Bkly 5108J  
Burland, Elmer Granville                  Visalia  
A.B. 1915; cand. J.D.; Frank M. Pixley  
Scholar  
3 Juris-2421 Virginia st                  Bkly 8249  
Burnett, Marguerite Howard              Berkeley  
B.L. 1914  
3 LS-Hotel Shattuck.                      Bkly 7800  
Burnham, George Bootes                  Berkeley  
B.S. 1911  
2 LS-1633 Josephine st                  Bkly 3074  
Burr, Ruth                                  Sacramento  
A.B. 1915  
2 Med-139 Hugo st, S F                  Snt 2663  
Burum, Rayford Young                      Visalia  
A.B. 1916  
2 Juris-2546 Chilton way                  Bkly 691J  
Busch, Eva Eleanore                      San Francisco  
B.L. 1902  
3 LS-231 Frederick st, S F                  Park 4980  
Byrne, Rita                                  San Francisco  
B.S. 1909  
2 LS-744 Hayes st, S F                  Park 2865  
Byrne, Winifred May                      Pocatello, Idaho  
A.B. (State University of Iowa) 1912  
1 LS-2428 Haste st                      Bkly 5587W  
Cady, Marion Ernest                      Berkeley  
A.B. (Battle Creek College) 1893; M.A.  
1916  
2 LS-2547 Piedmont av                  Bkly 8274W  
Calden, Ruth Ransom                      Oakland  
A.B. 1916  
1 LS-4127 Gilbert st, O                  Pied 4354  
Calder, John Roland                      San Francisco  
B.S. 1916  
1 Agr-2605 Durant av                      Bkly 552  
Caldwell, Augusta Ovida                  Alturas  
A.B. 1916  
1 LS-2821 Bancroft way                  Bkly 1765  
Camp, Carter Corson                      Napa  
A.B. 1916  
2 Juris-324 Forty-ninth st, O              Orange  
Campbell, Roy Elliott                      Orange  
B.S. 1913  
1 Agr-Citrus Exp. Sta., Riverside  
Campbell, Wallace                      Lick Observatory  
A.B. (Harvard University) 1916  
1 LS-2401 LeConte av                      Bkly 1279W  
Carle, Paul                                  Berkeley  
B.S. 1916  
1 Agr-University Farm, Daiva  
Carleton, William Franklin                  Berkeley  
B.S. (Michigan Agricultural College)  
1904  
1 Mec-2714 Dana st                      Bkly 3986
- Carlson, Carl Bruno                      Oakland  
A.B. (Augustana College) 1906; cand  
J.D.  
12 Juris-6029 Harwood av, O              Pied 1917W
- Carlson, Jennie                              Oakland  
A.B. (Augustana College) 1910  
12 LS-6029 Harwood av, O              Pied 1917W  
Carmichael, Irene                          Livingston  
A.B. 1916  
1 LS-2571 Dwight way                  Bkly 7079  
Carpenter, Mary Amelia                  Los Angeles  
A.B. 1916  
1 LS-2141 Berkeley way                  Bkly 4270  
Carson, Esther Hazeltime                  Lakeside  
Ph.B. (Nazarene University) 1914  
1 LS-1733 Bancroft way  
Case, Walter Mackay                      San Francisco  
A.B. (College of the Pacific) 1914; M.A.  
(Stanford University) 1916  
1 LS-2623 LeConte av                  Bkly 7039  
Caulkins, Asa Leonard                      Ceres  
A.B. 1916  
1 LS-1507 Henry st  
Cave, Charles Elmer                      Berkeley  
A.B. (Upper Iowa University) 1904;  
M.A. (State University of Iowa) 1907  
3 LS-2630 Benvenue av                  Bkly 3483J  
Cessna, Myrtle Pearl                      Grinnell, Iowa  
Ph.B. (Grinnell College) 1906  
1 LS-2401 Durant av                  Bkly 6681  
Chalmers, Ula Monnetta                  San Diego  
B.S. (Columbia University) 1914  
1 LS-2318 Telegraph av                  Bkly 5964  
Chamberlain, Richard Henry, Jr.          Oakland  
A.B. 1915; cand. J.D.  
3 Juris-133 Ramona av, P                  Pied 6558W  
Chamberlain, Thomas Gassner              Auburn  
A.B. 1915; cand. J.D.  
3 Juris-2522 Ridge rd                  Bkly 5950  
Chamberlin, Sue                              Berkeley  
A.B. 1916  
1 LS-1158 Green st, S F                  Pspt 173  
Chambers, Howard Elmer                  Pasadena  
A.B. (Whittier College) 1916  
1 Com-2200 Durant av                  Bkly 140W  
Charles, Edith Louise                      Topeka, Kan.  
A.B. 1916  
1 LS-2421 Ward st                      Bkly 5309J  
Cheney, William Fitch, Jr.                  San Francisco  
A.B. 1916  
1 LS-Faculty Club                      Bkly 2855  
Cherrington, Ben Mark                      Berkeley  
A.B. (University of Nebraska) 1911  
3 LS-Stiles Hall                          Bkly 481  
Child, Sarah Treat                          San Francisco  
B.L. 1885  
2 Agr-1906 Webster st, S F              Flmr 373  
Childs, Enid Maude                          Berkeley  
A.B. 1916  
2 Juris-2123 Bancroft way                  Bkly 7351

- Chislett, William, Jr. Los Angeles  
A.B. 1910, M.A. 1912, and Ph.D. 1916  
(Stanford University)  
11 LS-2623 LeConte av Bkly 7089  
Christal, May San Francisco  
B.S. 1913; M.S. 1914  
12 LS-2539 Durant av Bkly 890  
Christie, Jean Whitcher Berkeley  
A.B. 1915  
1 LS-2029 Berkeley way Bkly 6321W  
Christy, Robert Edward Alameda  
B.S. 1915  
12 LS-1829 Clinton av, A Ala 404  
Chubb, Evelyn Anne Oakland  
A.B. 1916  
11 LS-1932 Linden st, O Oakd 2325  
Clark, Amos Edwin Grass Valley  
A.B. (College of the Pacific) 1918  
3 LS-2431 College av Bkly 2863  
Clark, Clifton Wirt Urbana, Ill.  
A.B. 1913 and M.A. 1915 (University of  
Illinois); cand. Ph.D. (geology); F.M.  
Anderson Fellow  
3 LS-2400 Haste st Bkly 4956  
Clark, Guy Wendell Colorado Springs, Colo.  
A.B. 1912 and M.A. 1914 (Colorado Col-  
lege)  
1 LS-2208 Grove st  
Clark, Marion Berkeley  
A.B. 1916  
11 LS-11 El Camino Real Bkly 8798  
Clark, Robert Hazeltine Oakland  
A.B. 1916  
1 LS-11 El Camino Real Bkly 8798  
Clark, Sarah Alleen Berkeley  
A.B. 1915; M.A. 1916  
12 LS-2418 College av Bkly 2537J  
Clark, Walter Enoch Oakland  
A.B. 1915  
12 Juris-2579 San Pablo av, O Oakd 3277  
Clarke, Dorothy Katherine Alameda  
A.B. 1914  
11 LS-840 Contra Costa av Bkly 840  
Clarke, Mabel Sarah Niles  
B.L. 1903  
11 LS-1817 Brush st, O Oakd 8124  
Clarke, Teresa Dolores San Francisco  
A.B. 1916  
1 LS-543 Guerrero st, S F Park 7692  
Clow, Mariza Ellen Berkeley  
A.B. 1916  
1 LS-2218 McGee av Bkly 1040J  
Cloya, Willa Clair Berkeley  
A.B. 1915  
2 LS-2444 Piedmont av Bkly 8587W  
Cobb, Forrest Arthur San Francisco  
A.B. 1915; cand. J.D.  
3 Juris-2618 College av Bkly 1632J  
Cobb, Jesse Ludowick Tulare  
A.B. (Pomona College) 1916  
1 LS-Oxford apts Bkly 2385W  
Coe, Harry Carson Selma  
A.B. (Stanford University) 1915  
1 Med-2446 Washington st, S F  
Coffman, Wilmer Evans Berkeley  
A.B. (Wesleyan University) 1895; B.D.  
(Drew Theological Seminary) 1896  
5 LS-1671 Marin av Bkly 4765W  
Coggins, Edith Irene Oakland  
A.B. (Stanford University) 1916  
1 LS-1708 Fifty-fifth av, O Frvl 895W  
Colby, Inez Floyance Berkeley  
A.B. (Westfield College) 1903; B.L.S.  
(University of Illinois) 1909  
13 LS-2314 Haste st Bkly 4026  
Colby, Rachel Vrooman Oakland  
B.L. 1895; L.L.B. (Hastings College of  
the Law) 1898  
11 Agr-2901 Channing way Bkly 1773  
Collins, George Lukens Riverside  
A.B. 1915  
2 LS-2276 Shattuck av Bkly 4147J  
Collins, Hazel Minnie Visalia  
A.B. 1916  
1 LS-1809 Euclid av Bkly 1615  
Collopy, Lucy Maria Colma  
A.B. 1915  
2 LS-Colma Randolph 1644  
Colton, Albert Sanborn Bakersfield  
B.S. 1902  
3 LS-4314 Gilbert st, O Pied 5776J  
Colton, Clara Avery Berkeley  
A.B. 1916  
11 LS-123 Parkside dr Bkly 5867  
Conkle, Etta May Santa Ana  
A.B. 1915  
2 LS-2311 Bancroft way Bkly 214  
Connell, Mabel Anne Berkeley  
A.B. 1916  
11 LS-2329 Carlton st Bkly 1673  
Connitt, Elsie Beatrice Oakland  
A.B. 1916  
1 LS-2551 Harrington av, O Frvl 2166  
Conrey, David Wells Los Angeles  
A.B. 1915  
2 Juris-2345 College av Bkly 62  
Cook, John Wesley Los Angeles  
B.S. (Occidental College) 1916  
1 LS-2511 Dwight way Bkly 7079  
Cooke, Alma Locke Oakland  
B.S. 1911  
11 LS and 12 Med-139 Hugo st, S F Snt 2663  
Coon, Ralph Hinsdale Riverside  
A.B. 1915  
2 LS-2123 Kittridge st Bkly 8765

- Cooper, William John Red Bluff  
A.B. 1906  
3 LS-1825 San Juan av Bkly 1153  
Cope, Leona Red Bluff  
A.B. 1916  
21 LS-819 Gilman st  
Coppock, Stanley Arkansas Cherokee, Okla.  
A.B. (Friends University, Kansas) 1910  
22 LS-2400 Durant av  
Cordell, Marguerite Salt Lake City, Utah  
A.B. 1916  
1 LS-2314 Haste st Bkly 4026  
Corniah, Beatrice Quijada Berkeley  
B.L. 1914; M.A. 1915  
2 LS-2005 Vine st Bkly 4434  
Coughlan, William Darrell Nevada City  
A.B. 1916  
21 LS-32 Santa Rosa av, S F  
Randolph 994  
Coyle, Ray Frederick Oakland  
B.S. (Princeton University) 1907  
11 LS-667 Sixty-first st, O Pied 2212  
Cozens, Frederick Warren Portland, Ore.  
A.B. 1915  
2 LS-2523 Virginia st Bkly 3531J  
Cozens, Harold Hammond Encinitas  
B.S. 1914; M.A. 1915  
3 LS-2239 Blake st Bkly 3184  
Crafton, Paul Stout Los Angeles  
A.B. 1916  
1 LS-Hotel Morse Bkly 8300  
Craig, Marian Frances Pasadena  
A.B. 1916  
1 LS-2618 1/2 College av Bkly 4211J  
Crane, Clarence Burnham Woodland  
A.B. 1908  
12 LS-763 Estudillo av, S L S L 18J  
Crawford, Helen Topeka, Kans.  
A.B. 1916  
21 LS-2723 Durant av Bkly 9531  
Crockett, Grace Lilian Boston, Mass.  
A.B. (Radcliffe College) 1895  
1 LS-2240 Telegraph av Bkly 1249  
Crofts, Dorothy Berkeley  
A.B. 1916  
21 LS-2930 Magnolia st Bkly 7823  
Cronise, Corrine San Francisco  
A.B. 1916  
11 LS-2723 Durant av Bkly 9531  
Crossley, Katherine San Francisco  
A.B. 1916  
1 LS-2514 Haste st Bkly 3568W  
Crum, Ethel Katherine Berkeley  
A.B. (University of Illinois) 1907  
2 LS-800 Spruce st Bkly 7742  
Cruzan, Bertha Bootes Belmont  
A.B. (Stanford University) 1907  
21 LS-2801 Russell st Bkly 6401W  
Cumings, Sophie Louise Redlands  
B.S. (University of Redlands) 1914  
2 LS-24 Panoramic way Bkly 6695J  
Cunningham, Charles Henry Compton  
B.L. 1909; M.L. 1910; Ph.D. 1915; N.  
S. G. W. Traveling Fellow  
6 LS-Seville, Spain  
†Curtis, Louise Hadley Lincoln  
A.B. (Smith College) 1910  
2 LS-Lincoln  
Curtis, Merritt Barton San Bernardino  
A.B. 1916  
2 Juris-2318 Telegraph av Bkly 5964  
Cushman, Orville Elsworth Vermilion, S. D.  
A.B. (University of South Dakota) 1912  
2 Chem-2333 Channing way Bkly 8338  
Czarnecki, Helen Ladislaus Oakland  
B.S. 1916  
1 Agr-4070 Opal st, O Pied 4661W  
Dadisman, Samuel Houston Berkeley  
B.S. (University of West Virginia) 1912  
1 Agr-1908 Vine st  
Daniels, Charles Mellon Upland  
A.B. (Pomona College) 1906  
13 LS-2037 Clinton av, A Ala 805W  
Daniels, Sarah Paine South Pasadena  
A.B. 1916  
11 LS-2732 Channing way Bkly 9317  
Darling, Harold Preston Oakland  
A.B. 1916  
1 LS-1512 Linden st, O Oakd 2462  
Das, Taraknath Berkeley  
A.B. (1910) and M.A. 1911 (University  
of Washington)  
14 LS-2407 Fulton st Bkly 6870  
Daah, Loveretta Corning  
A.B. 1916; Joseph Bonnheim Memorial  
Scholar  
1 LS-2718 Haste st Bkly 2148  
Davidson, Pirie San Rafael  
A.B. 1915  
2 LS-2420 College av Bkly 8391  
Davis, Benjamin Joseph Berkeley  
A.B. (Yale University) 1886  
2 LS-2525 Piedmont av Bkly 8679J  
Davis, Elbert Willard Berkeley  
A.B. 1916  
2 Juris-2644 Dwight way Bkly 2588  
Davis, Elmer Fred Houston, Tex.  
B.S. 1910; M.S. 1912; cand. Ph.D. (ge-  
ology)  
6 LS-1807 Francisco st  
Davis, Percy Roland Lakeside  
Ph.B. (Northwestern University) 1904  
21 LS-2248 Telegraph av Bkly 9011  
Davis, Susan Kirk San Jose  
B.S. 1914  
23 Agr-2627 Hearst av Bkly 1207  
Davis, Tenney Lombard Somerville, Mass.  
B.S. (Massachusetts Institute of Technol-  
ogy) 1913; M.A. (Harvard University)  
1915  
1 Chem-5 1/2 Panoramic way

- DeChenne, Ernest Raymond Sprague, Wash.  
A.B. 1915  
2 Arch-2632 Durant av Bkly 5187  
DeKay, Helen Margaret Berkeley  
A.B. 1916  
1 LS-2027 Delaware st Bkly 3712  
de la Cuesta, Dulce Santa Ynez  
A.B. 1916  
1 LS-2704 Channing way Bkly 8352  
de Laguna, Mariquita Oakland  
A.B. 1916  
1 LS-518 Twenty-fourth st, O Oakd 7777  
De Lancey, Chester Arthur Oakland  
A.B. 1916  
12 Med-625 Sycamore st, O Lksd 2561  
De Lancy, Clarence Aldon Oakland  
A.B. 1916  
2 Juris-4101 Opal st, O Lksd 2561  
Dement, John Carey, Jr. San Diego  
A.B. 1916  
1 Med-2625 Hearst av Bkly 7614  
de Veuve, Alice Louise Larkspur  
A.B. 1915  
2 LS-2721 Haste st Bkly 8800  
Dewey, Mattie Christine Redlands  
A.B. (University of Michigan) 1910  
1 LS-2624 Virginia st Bkly 3663  
Dewing, Pearl Martha Oakland  
B.L. 1904  
1 LS-5201 Shattuck av, O Pied 2579  
Dickie, Paul Rupert San Francisco  
A.B. (Marysville College) 1904  
1 LS-1006 Hanover st, S F  
Randolph 1158  
Dickinson, Abless Bray San Francisco  
B.S. 1915  
2 LS-2101 Telegraph av, O Lksd 1700  
Diepenbrock, Aloysius Ignatius Sacramento  
A.B. 1915; cand. J.D.  
3 Juris-Channing apts Bkly 8426W  
Dierssen, Evelyn Sacramento  
A.B. 1916  
1 LS-2725 Channing way Bkly 7950  
Dill, Cora Elva Berkeley  
B.S. (Iowa Wesleyan University) 1892;  
A.B. (State University of Iowa) 1915  
1 LS-2223 Chapel st Bkly 2708  
Dinamore, Lura Dell Inglewood  
A.B. 1916  
1 LS-2417 LeConte av Bkly 5650  
Dimukes, Joseph Walton Santa Ana  
B.S. 1915  
1 LS-2521 Channing way Bkly 5831  
Dodge, Mildred Leanoire Alameda  
B.L. 1914  
2 LS-2908 Channing way Bkly 2677  
Doig, Leroy Lowry Santa Ana  
A.B. (Occidental College) 1915  
1 LS-2500 Bancroft way Bkly 1848  
Donnelly, Laura Lorine Colusa  
B.S. 1900  
1 LS-2120 McGee av  
Dormody, Helen Dorothy Placerville  
A.B. 1916  
1 LS-2429 Channing way Bkly 4648  
Dorton, Randall Mills Kansas City, Mo.  
A.B. 1916  
1 LS-2639 Channing way Bkly 845  
Dougherty, Margaret Anna San Francisco  
B.L. 1908  
2 LS-327 Pierce st, S F Park 4593  
Doyle, Alfred M. Berkeley  
A.B. 1916  
1 LS-2228 Dana st Bkly 1053  
D'Oyly, Edward Nigel  
Christchurch, New Zealand  
B.E. (University of New Zealand) 1910;  
M.S. 1916; cand. E.E.; Mackay Fellow  
2 Mec-2248 Telegraph av Bkly 9011  
Drew, A. Damer Oakland  
Ph.G. (Philadelphia College of Pharm-  
acy) 1886; M.D. (University of Vir-  
ginia) 1891  
4 LS-2169 Fifty-first av, O  
Drumheller, Eleanor Spokane, Wash.  
A.B. (University of Washington) 1887  
1 LS-Hotel Claremont Bkly 9300  
Dubois, William Randolph San Francisco  
A.B. 1916  
2 Juris-2251b Market st, S F Mrkt 1692  
Dukes, Neville Regina Oakland  
A.B. 1916  
1 LS-450 Sixty-fifth st, O Pied 3112W  
Duschak, Alice Day Buffalo, N. Y.  
A.B. (Vassar College) 1916  
1 Chem-1301 Tamalpais rd Bkly 1737J  
Dyer, Jeannette Ralph Saratoga  
A.B. (Western Reserve University) 1915  
2 LS-2508 Ridge rd Bkly 5312J  
Dyer, Laura Elizabeth Berkeley  
A.B. (Stanford University) 1899  
1 LS-1214 Walnut st Bkly 2591J  
Eastman, Ermon Dwight Marysville  
B.S. 1913; M.S. 1914; cand. Ph.D.  
(physical chemistry)  
4 Chem-2416 Durant av Bkly 2850W  
Easton, Elizabeth Janet Monterey  
A.B. 1916  
1 LS-2519 Hillegass av Bkly 477  
Easton, George Eugene Sedro Woolley, Wash.  
A.B. (University of Iowa) 1907  
1 LS-Shattuck Hotel Bkly 7300  
Eaton, Edith St. John Berkeley  
A.B. (University of Michigan) 1907  
2 LS-2418 Durant av  
Eaton, Laura Franc Oakland  
B.S. (Columbia University) 1911  
1 LS-4223 Terrace st, O Pied 5522J

- Edinger, Dorothy Berkeley  
A.B. 1915; M.A. 1916; Taussig Memorial  
Scholar  
2 LS-323 W Eighty-fifth st, New York,  
N. Y.
- Edinger, Ruth Mary Alameda  
A.B. 1918  
1 LS-2723 Durant av Bkly 9531
- Edmunds, Constance Gray New York, N. Y.  
A.B. 1916  
1 LS-2400 Piedmont av Bkly 5224
- Edwards, Archie M. Santa Barbara  
B.S. 1916  
1 Agr-University Farm, Davis  
Edwards, Logan Combs Visalia  
A.B. 1916  
1 Juris-2215½ Ellsworth st  
Bkly 1468W
- Edwards, Lyman Elmer Los Angeles  
Ph.B. (Drake University) 1906; M.A.  
(University of Southern California)  
1911  
2 LS-2410 Dana st Bkly 7047W
- Edwards, Merwin Guy Berkeley  
A.B. 1912 and M.A. 1913 (University of  
Wisconsin)  
1 LS-2436 Channing way Bkly 8286W
- Eller, Willard Henry Etna Mills  
B.S. 1914  
1 LS-2438 Haste st Bkly 3053W
- Elliott, Raymond Davis Long Beach  
B.S. (University of Chicago) 1909  
1 Chem-Elks Club Bkly 176
- Ellis, Alice Clyde Berkeley  
A.B. 1916  
1 LS-2236 Grove st Bkly 1420
- Ellis, Francis Crispin Grimes, Iowa  
A.B. (Grinnell College) 1914  
1 LS-2223 Atherton st Bkly 6680
- Ellis, Lela Olive Colusa  
A.B. 1915  
1 LS-1635 Euclid av Bkly 4138J
- Emerson, Orville Reddick Long Beach  
A.B. 1915  
1 LS-2534 Bancroft way Bkly 2596J
- English, Blanche Burns Berkeley  
B.L. (Nebraska Wesleyan University)  
1886  
2 LS-2001 Haste st Bkly 6213
- Essenberg, Christine Elizabeth Berkeley  
B.S. and B.Ped. (Valparaiso University)  
1911; M.S. 1914; cand. Ph.D. (zo-  
ology)  
4 LS-Scripps Institution, La Jolla
- Eveleth, Dwight Edward Berkeley  
B.S. 1916  
1 Com-1720 Carlton st Bkly 6002W
- Everett, Laura Bell Berkeley  
A.B. (Stanford University) 1901  
3 LS-2632 Regent st Bkly 6403W
- Fairchild, Sarah Evelyn Ione  
A.B. 1916; Joseph Bonnheim Memorial  
Scholar  
1 LS-1736 Oxford st Bkly 7247
- Fairclough, Katrine Rushton Stanford University  
A.B. (Stanford University) 1914  
1 LS-2618½ College av Bkly 4211W
- Falk, Henry Oscar Berkeley  
A.B. 1916  
1 LS-2033 Berryman st Bkly 6087W
- Farlinger, Isabella Agnes Richmond  
A.B. 1916  
1 LS-227 Second st, R Rchd 1093W
- Fawcett, Harold Pascoe San Francisco  
A.B. (Mt. Allison College) 1914  
2 LS-18 Valley st, S F Man 1152
- Faye, Paul Louis Santa Fe, N. M.  
B.L. 1903 and LL.B. 1907 (Aix)  
1 LS-2606 Bancroft way Bkly 2617
- Fenner, Walter Herbert Berkeley  
Graduate, Military College, Sandhurst  
1889  
1 LS-624 Vincente av Bkly 6253J
- Ferguson, Janet Berkeley  
A.B. (University of Nebraska) 1905  
1 LS-2317 Haste st Bkly 4862
- Ferris, Vera Shaver Berkeley  
A.B. (University of Utah) 1909  
1 LS-209 Treehaven apts Bkly 8482W
- Field, Anna Oakland  
A.B. 1916  
1 LS-590 Sixty-third st, O Pied 3727W
- Field, Ephraim Oakland  
B.S. 1914; M.A. 1915; Gr.Arch. 1916  
2 LS-590 Sixty-third st, O Pied 3727W
- Findlay, Grace Mary Berkeley  
B.S. 1916  
1 Agr-2226 Chapel st Bkly 879
- Finger, Clyde Pinckney Stockton  
B.S. 1907  
2 Chem-550 Twenty-fifth st, O Lksd 852
- Finity, Lila May Fresno  
A.B. 1915  
1 LS-2546 Chilton way Bkly 691J
- Fischbeck, Susan Louise San Francisco  
A.B. (Goucher College) 1918  
1 LS-1090 Dolores st, S F Man 2747
- †Fischer, Rudolph Santee  
B.S. 1913; M.S. 1914  
3 Agr-San Dimas
- Fisher, John Thomas Healdsburg  
B.L. 1914  
1 Juris-1936 Berkeley way Bkly 5991
- Fisher, Philip Melanchthon, Jr. Oakland  
B.L. 1913  
1 LS-431 Orange st, O Oakd 8184
- Fitschen, Myrtle Viola San Francisco  
A.B. 1916  
1 LS-2620 Haste st Bkly 2351

<b>Flannery, Monica</b> A.B. 1916 1 LS-1639 Oxford st Bkly 2949J	<b>Brawley</b> A.B. (University of Washington) 1915 2 LS-686 Seventy-third av, O Lksd 585, Fitchburg Local Santa Cruz	<b>Fulton, Orra Stella</b> A.B. 1916 1 LS-1789 Euclid av Bkly 493 Fussell, Paul Longstreth Pasadena A.B. 1916 2 Juris-2614 Dwight way Bkly 1276
<b>Flügel, Felix</b> Stanford University A.B. (Stanford University) 1914; Flood Fellow 1 LS-2424 Virginia st	<b>Stanford University</b> Fort Collins, Colo. B.S. (University of Illinois) 1911; Mac- kay Fellow 1 Mec-2320 Hilgard av Bkly 6180	<b>Furlong, Beas</b> A.B. 1916 1 LS-2526 Hillegass av Bkly 5075W Gallagher, Hugh Santa Barbara A.B. (Harvard University) 1915 2 Agr-University Farm, Davis Santa Ana A.B. 1916 1 LS-2210 Atherton st Bkly 4698 Gamble, Marian Stewart Oakland B.L. 1908 3 LS-6428 Colby st, O Pied 8231J Gamble, Sidney David Pasadena Litt.B. (Princeton University) 1912; M.A. 1916 3 LS-1539 Spruce st Bkly 5346J
<b>Folta, Leroy Stewart</b> B.S. (University of Illinois) 1911; Mac- kay Fellow 1 Mec-2320 Hilgard av Bkly 6180	<b>Fowler, Charles Beebe</b> San Francisco A.B. 1916 2 Med-1230 Leavenworth st, S F Papt 3172 Oakland Fowler, Godfrey Rees B.C.E. (Agricultural and Mechanical Col- lege of Texas) 1894; LL.B. (Univer- sity of Texas) 1897; M.A. 1915; cand. Ph.D. (political science) 5 LS-2101 Telegraph av, O Lksd 1700	<b>Gaddis, Fanny Woodhull</b> Monterey B.L. 1914 1 LS-2526 Hillegass av Bkly 5075W Gallagher, Hugh Santa Barbara A.B. (Harvard University) 1915 2 Agr-University Farm, Davis Santa Ana A.B. 1916 1 LS-2210 Atherton st Bkly 4698 Gamble, Marian Stewart Oakland B.L. 1908 3 LS-6428 Colby st, O Pied 8231J Gamble, Sidney David Pasadena Litt.B. (Princeton University) 1912; M.A. 1916 3 LS-1539 Spruce st Bkly 5346J
<b>Frandy, Mervyn Francis</b> Nevada City A.B. 1916 2 Med-270 Carl st, S F Park 7379 Frary, Edwina Berkeley B.L. 1912; M.A. 1914 1/4 LS-122 Hugo st, S F Snst 1608	<b>Fraser, Maud McKibben</b> Alameda A.B. (Stanford University) 1906 1 LS-2029 Alameda av, A Ala 870 Frederickson, Walter George Berkeley A.B. 1912 2 LS-2226 Haate st Bkly 4227 Freeman, Emma Mary Pasadena A.B. (Pomona College) 1916 1 LS-2400 Piedmont av Bkly 5224	<b>Gardiner, Robert Rosborough</b> Oakland A.B. 1916 2 Juris-2200 Piedmont av Bkly 6760 Gardner, Grandison Logan, Utah B.S. (Utah Agricultural College) 1914 2 LS-2018 Cedar st Logan, Utah Gardner, Robert B.S. (Utah Agricultural College) 1916 1 Agr-2018 Cedar st Oakland Gardner, Rose Verl Oakland A.B. 1916 1 LS-865 Vermont st, O Oakd 2866 Gaw, Elizabeth Berkeley A.B. 1916 1 LS-2713 Ellsworth st Stockton A.B. 1916 1 LS-2400 Durant av Bkly 7954 Geddes, Marguerite Byron A.B. 1916 1 LS-2519 Parker st Bkly 6090J Gehrkena, Rose Elsie Hollywood A.B. 1916 1 LS-2434 Piedmont av Bkly 8341 Geier, Persis Ethel Claremont A.B. (Pomona College) 1913 1 LS-2708 Channing way Bkly 1832 Gibbs, Harriet Ellery Oakland Ph.B. 1898 1/2 LS-358 Thirty-fourth st, O Pied 1834 Gifford, Pearl Sabina Napa A.B. 1915 1 LS-2749 Dwight way Bkly 204
<b>Fraser, Maud McKibben</b> Alameda A.B. (Stanford University) 1906 1 LS-2029 Alameda av, A Ala 870 Frederickson, Walter George Berkeley A.B. 1912 2 LS-2226 Haate st Bkly 4227 Freeman, Emma Mary Pasadena A.B. (Pomona College) 1916 1 LS-2400 Piedmont av Bkly 5224	<b>Friedman, Abraham Rosch Pinash, Palestine</b> A.B. (Syrian Protestant College) 1915 1 Agr-1924 Home st Bkly 4795J Friedman, John Joseph Alton, Iowa A.B. 1915 and B.S. 1916 (Mount Angel College) 1 LS-1706 Walnut st Bkly 6731 Friedman, Lucile Selma Hailey, Idaho A.B. 1916 1 LS-1809 Euclid av Bkly 1615 Friedman, Monroe Mark Oakland A.B. 1916 2 Juris-1919 Grove st Bkly 7608W Frishie, Edith San Francisco B.L. 1914 3 LS-2747 Stuart st Bkly 6919W Fryer, Charles Morel Oakland A.B. 1915; cand. J.D. 3 Juris-3112 Fourteenth av, O Mer 1157 Fujii, Sumito Berkeley B.S. 1915; M.S. 1916 2 Agr-2308 Virginia st Bkly 6441	<b>Fulton, Orra Stella</b> A.B. (University of Washington) 1915 2 LS-686 Seventy-third av, O Lksd 585, Fitchburg Local Santa Cruz Furlong, Beas A.B. 1916 1 LS-1789 Euclid av Bkly 493 Fussell, Paul Longstreth Pasadena A.B. 1916 2 Juris-2614 Dwight way Bkly 1276 Gaddis, Fanny Woodhull Monterey B.L. 1914 1 LS-2526 Hillegass av Bkly 5075W Gallagher, Hugh Santa Barbara A.B. (Harvard University) 1915 2 Agr-University Farm, Davis Santa Ana A.B. 1916 1 LS-2210 Atherton st Bkly 4698 Gamble, Marian Stewart Oakland B.L. 1908 3 LS-6428 Colby st, O Pied 8231J Gamble, Sidney David Pasadena Litt.B. (Princeton University) 1912; M.A. 1916 3 LS-1539 Spruce st Bkly 5346J Gardiner, Robert Rosborough Oakland A.B. 1916 2 Juris-2200 Piedmont av Bkly 6760 Gardner, Grandison Logan, Utah B.S. (Utah Agricultural College) 1914 2 LS-2018 Cedar st Logan, Utah Gardner, Robert B.S. (Utah Agricultural College) 1916 1 Agr-2018 Cedar st Oakland Gardner, Rose Verl Oakland A.B. 1916 1 LS-865 Vermont st, O Oakd 2866 Gaw, Elizabeth Berkeley A.B. 1916 1 LS-2713 Ellsworth st Stockton A.B. 1916 1 LS-2400 Durant av Bkly 7954 Geddes, Marguerite Byron A.B. 1916 1 LS-2519 Parker st Bkly 6090J Gehrkena, Rose Elsie Hollywood A.B. 1916 1 LS-2434 Piedmont av Bkly 8341 Geier, Persis Ethel Claremont A.B. (Pomona College) 1913 1 LS-2708 Channing way Bkly 1832 Gibbs, Harriet Ellery Oakland Ph.B. 1898 1/2 LS-358 Thirty-fourth st, O Pied 1834 Gifford, Pearl Sabina Napa A.B. 1915 1 LS-2749 Dwight way Bkly 204

- Gill, Harley Hayes Berkeley  
A.B. 1916  
\*1 LS-1842 Parker st Bkly 7415W  
Gilson, Emily Harryette Mariposa  
A.B. (University of Texas) 1916  
\*1 LS-2622 Regent st  
Glazer, Anna Escanaba, Mich.  
A.B. 1915  
\*1 LS-534 Fifty-second st, O Pied 8667W  
Gleason, Margaret Los Angeles  
Ph.B. (State University of Iowa) 1893;  
B.S. (University of Chicago) 1907  
1 LS-2441 Haste st  
Gluckman, Sadie Alice Berkeley  
A.B. 1916  
1 LS-1711 Virginia st  
Goethals, Celina Regina Riverside  
A.B. 1916  
1 LS-2435 Hilgard av Bkly 6406  
Goggio, Emilio Boston, Mass.  
A.B. (Harvard University) 1909; M.A.  
(University of Toronto) 1910; cand.  
Ph.D. (Italian)  
3 LS-2541 Ellsworth st Bkly 1799  
Goldberg, Jacob Los Angeles  
A.B. 1915; cand. J.D.; Sheffield-Sanborn  
Scholar  
3 Juris-2318 Telegraph av Bkly 5964  
Goldstone, Bertha Marion Saginaw, Mich.  
A.B. (University of Michigan) 1905  
\*1 LS-2635 Hillegas av Bkly 2491J  
Goodall, Helen Marian Oakland  
A.B. 1916  
\*1 LS-150 Lake st, O  
Goodrich, Henriette Blanding San Francisco  
A.B. (Vassar College) 1912  
\*1 LS-2311 Piedmont av Bkly 3985  
Goodvkooontz, Myrtle Laura Canon City, Colo.  
A.B. 1916  
1 LS-2539 Durant av Bkly 8808  
Gorham, Mildred Ide San Francisco  
A.B. 1916  
1 LS-2422 S Atherton st Bkly 3004  
Gottlieb, Abraham James San Francisco  
M.D. (Columbia University) 1910  
\*2 LS-323 Geary st, S F  
Goyette, Mildred Marie Los Angeles  
A.B. 1915  
\*1 LS-2821 Bancroft way Bkly 1765  
Grady, Harry Francis San Francisco  
A.B. (St. Mary's University) 1907  
\*2 LS-2217 Center st Bkly 6521  
Graham, Pearl May Covina  
A.B. 1905  
\*1 LS-2216 Dwight way Bkly 3745  
Graham, William Joseph Berkeley  
B.S. 1912; M.S. 1913; cand. Gr.Arch.  
\*2 Arch-5929 Keith av, O Pied 3886W  
Grant, Esther Melvina San Francisco  
A.B. 1916  
1 LS-1032 Irving st, S F
- Grasovsky, Assaph Jaffa, Palestine  
A.B. (Syrian Protestant College) 1914  
\*1 Agr-University Farm, Davis  
Graves, Edythe Alice Whittier  
A.B. (Pomona College) 1916  
1 LS-2334 Bowditch st Bkly 1358W  
Gray, Arthur Amos Berkeley  
A.B. (Ohio Northern University) 1908;  
M.A. 1915  
3 LS-1821 Berkeley way  
Gray, Minna Wohlford Berkeley  
A.B. 1904 and M.A. 1906 (University of  
Denver)  
\*3 LS-2138 McKinley av  
Gray, Theodore Benicia  
A.B. 1877; LL.B. (Hastings College of  
the Law) 1881  
1 LS-2540 Benvenue av Bkly 4742  
Green, Agnes Oakland  
A.B. (State University of Iowa) 1916  
\*1 LS-1425 Harrison st, O Lksd 1900  
Gregory, Waldron Ashley Madison  
A.B. 1916  
1 Med-2521 Durant av Bkly 3437  
Greves, George Lothaine Peoria, Ill.  
B.S. (University of Illinois) 1913; M.S.  
1916  
2 LS-1608 Oxford st Bkly 6240J  
Griswold, Robert N. Oakland  
A.B. (Yale University) 1909  
\*1 LS-6400 Harwood av, O  
Groom, Emma Boulder, Colo.  
A.B. (University of Colorado) 1911  
\*1 LS-2518 Virginia st Bkly 6802  
Grover, Elsie Jeanette San Francisco  
B.L. 1912; M.L. 1913; cand. Gr.Ed.  
\*3 LS-121 Belvedere st, S F Park 4588  
Guha, Kamini Kumar Calcutta, India  
4 Mec-2026 Center st Bkly 2503J  
Gunn, Lucy Angeline Breckenridge, Minn.  
A.B. (Wells College) 1913  
2 LS-1529 Hawthorne ter Bkly 1822  
Guppy, Estella Lois Pacific Grove  
A.B. (College of the Pacific) 1886; M.A.  
(University of Michigan) 1887  
\*1 LS-2430 Bancroft way  
Gwinn, Helen Elizabeth Garfield, Wash.  
B.Mus. (Whitman College) 1913  
1 LS-2036 Blake st Bkly 3958W  
Haass, Elizabeth Wichita, Kans.  
A.B. (Fairmount College) 1912  
1 LS-2606 Bancroft way Bkly 2617  
Haball, Anna Berkeley  
B.L. 1914; M.A. 1916  
\*3 LS-2403 Telegraph av Bkly 3608  
Hackett, Charles Wilson Berkeley  
A.B. (University of Texas) 1909; M.A.  
1914; cand. Ph.D. (history)  
4 LS-2508 Ridge rd Bkly 4855J



- Hada, Katsuki Sacramento  
A.B. (University of Illinois) 1916  
\*1 LS-2308 Virginia st
- Hagar, Gerald Hanna Anaheim  
A.B. (University of Michigan) 1914  
2 Juris-2631 College av Bkly 467W
- Hall, Charles Clarke Portland, Ore.  
A.B. 1916; Research Fellow on the  
Hooper Foundation, second half-year  
\*1 LS and 2 Med-1489 Fifth av, S F  
Snat 3062
- Hall, Herbert Edwin Oakland  
A.B. 1916  
2 Juris-67 King av, P Pied 2299
- Hall, Lillian Mary Berkeley  
A.B. 1916  
\*1 LS-1721 Grove st Bkly 6967
- Hall, Mary E. L. Orange  
B.S. (Kansas State Agricultural College)  
1904  
1 LS-1809 Euclid av Bkly 1615
- Hallock, Clara Dougrey San Francisco  
A.B. (Smith College) 1906; B.S. (Sim-  
mons College) 1913  
1 LS-2436 Prospect st Bkly 3685J
- Halsey, Grace D. Los Angeles  
A.B. 1916  
1 LS-1364 Scenic av Bkly 2099
- Hamff, Christian Frederick Berkeley  
A.B. (Southwestern University) 1906;  
M.A. (University of the South) 1911  
\*3 LS-2427 Haste st Bkly 6596
- Hamilton, Lloyd Nelson Oakland  
A.B. 1916  
2 Juris-3825 Howe st, O Pied 4392W
- Hamilton, Ruth Stephenson Berkeley  
A.B. (Stanford University) 1903  
\*1 LS-1111 Fresno av Bkly 8992W
- Hankey, Albert Howard Santa Ana  
A.B. (Pomona College) 1914  
2 LS-2406 Bancroft way Bkly 6428
- Harber, Jeanette Waundre Alameda  
A.B. 1916  
1 LS-2225 San Jose av, A Ala 518W
- Harding, Mildred Delta Oakland  
A.B. (University of Colorado) 1911  
\*1 LS-973 Sixty-second st, O
- Harnett, Kathleen Long Beach  
A.B. 1916  
1 LS-2210 Atherton st Bkly 4698
- Harrigan, Mildred Berkeley  
A.B. (Stanford University) 1900; M.A.  
(Columbia University) 1913  
\*1 LS-2413 Virginia st Bkly 7205J
- Harrington, Theresa Francis Oakland  
B.L. 1913  
\*1 LS-922 Adeline st, O Oakd 6215
- Harrison, Marion Allen Brownesville, Ore.  
B.S. (Oregon Agricultural College) 1915  
\*1 Agr-2525 Dwight way
- Harter, Harold Charles Oakland  
A.B. (Willamette University) 1912; M.A.  
1916  
\*4 LS-Calif. School for the Deaf and the  
Blind Bkly 3
- Hartley, Edith Helen Upland  
A.B. (Pomona College) 1916  
1 LS-2531 Ridge rd Bkly 6485
- Hartwig, Charles Henry Blue Mound, Ill.  
A.B. (James Millikin University) 1909  
\*1 LS-2001 Allston way Bkly 6710
- Haskell, Marion Lowrie Los Angeles  
A.B. (Occidental College) 1916  
1 LS-2641A Channing way
- Hau, George William San Jose  
B.Ped. 1899 and M.A. 1905 (Ohio North-  
ern University); M.A. (Columbia Uni-  
versity) 1909  
\*2 LS-1547 Shattuck av
- Hauswirth, Frieda Mathilda Carmel  
A.B. (Stanford University) 1910  
\*1 LS-2248 Telegraph av Bkly 9011
- Hawkins, Blanche Alice San Francisco  
A.B. 1916  
1 LS-1818 Carlton st
- Hawkins, Eugene Alston Los Angeles  
A.B. 1916  
2 Juris-1815 Highland pl Bkly 1682
- Hawkins, Melville Denny Berkeley  
A.B. (Earlham College) 1911  
1 LS-2704 Virginia st Bkly 4695W
- Hawley, Darrell Bertrand Los Angeles  
Graduate (U. S. Naval Academy) 1911  
1 Med-2428 Bancroft way Bkly 3034
- Haworth, Harry Hopkins Newberg, Ore.  
B.S. (Pacific College) 1915  
1 LS-2118 Channing way Bkly 4819
- Haws, Murray Willman San Bernardino  
A.B. (Stanford University) 1906  
\*1 LS-5098 Manila av, O
- Hayes, Leslie Louise Oakland  
A.B. 1916  
1 LS-5925 Shafter av, O Pied 4045W
- Hayne, Margaret Perkins Berkeley  
A.B. 1908; M.A. 1909; cand. Ph.D.  
(English)  
3 LS-2421 Piedmont av Bkly 1214
- Haynes, Florence de Brenta San Francisco  
B.L. 1912  
1 LS-2620 Warring st Bkly 1979
- Haynes, Helen DeHaven Berkeley  
A.B. 1915  
\*1 LS-2430 College av Bkly 1144J
- Hazard, Lucy Lockwood Redlands  
A.B. (University of Redlands) 1916  
1 LS-1637 Oxford st Bkly 2087J
- Heath, Eugene Schofield Fresno  
A.B. (Ohio Wesleyan University) 1906  
M.A. (University of Nebraska) 1912  
1 LS-2126½ Hearst av
- Heath, Pearl Elizabeth Donner  
A.B. 1911  
\*2 LS-2237 Piedmont av Bkly 8682W

- Heath, Virginia Shropshire Fresno  
A.B. (Goucher College) 1906; M.A. (University of Nebraska) 1912  
<sup>21</sup> LS-2126½ Hearst av  
 Heilfronn, Milton Mendel San Francisco  
A.B. 1916  
<sup>1</sup> LS-583 Fell st, S F Park 2219  
 Heinz, Alice Margaret Berkeley  
A.B. 1916  
<sup>1</sup> LS-Euclid apts Bkly 5155J  
 Heller, Walter Stern San Francisco  
B.S. 1913; M.A. 1915  
<sup>3</sup> LS-361 Mills bldg, S F Sutr 765  
 Hendershot, William Albert Tulare  
B.S. 1904 and B.S.A. 1913 (Kansas State Agricultural College)  
<sup>1</sup> LS-1147 Gilman st  
 Henley, Constance Jordan Livermore  
B.L. 1906  
<sup>21</sup> LS-1546 Shattuck av Bkly 4872  
 Henrich, Antonia Zella Berkeley  
B.L. 1913  
<sup>21</sup> LS-2227 Union st Bkly 4520  
 Henrich, Marguerite Evangel Berkeley  
A.B. 1916  
<sup>1</sup> LS-2227 Union st Bkly 4520  
 Henry, Helen Lucile Porterville  
A.B. 1916  
<sup>1</sup> LS-2713 Derby st Bkly 3260  
 Henshaw, Millett Palo Alto  
A.B. (University of Colorado) 1915;  
M.A. (Stanford University) 1916  
<sup>1</sup> LS-2634 Fulton st  
 Hentschke, Armin Carl Redlands  
A.B. (University of Redlands) 1916  
<sup>1</sup> LS-2511 Regent st Bkly 1367J  
 Hermle, Leo David Oakland  
A.B. 1915; cand. J.D.  
<sup>3</sup> Juris-2501 Ridge rd Bkly 1385  
 Hermle, Nellie Adele Oakland  
A.B. 1916  
<sup>1</sup> LS-3128 Telegraph av, O Pied 1596W  
 Herrick, Florence South Berkeley  
A.B. (Stanford University) 1914  
<sup>21</sup> LS-2616 Channing way Bkly 2905  
 Herrmann, Elizabeth Adelaide Berkeley  
A.B. 1902; M.A. 1910  
<sup>13</sup> LS-Mills College, O Elm 10  
 Hervey, Harcourt Los Angeles  
A.B. 1916  
<sup>12</sup> Juris-2421 Virginia st Bkly 8249  
 Hewett, Lucile Alameda  
B.S. 1903  
<sup>13</sup> LS-1826 Clinton av, A Ala 1307  
 Hickman, George Francis Provo, Utah  
A.B. (Brigham Young University) 1916  
<sup>1</sup> LS-2632 Haste st  
 Hill, Adalene Rogers Tacoma, Wash.  
A.B. (Smith College) 1908  
<sup>1</sup> LS-2624 Virginia st Bkly 3663
- Hillis, Lewis Bradley Berkeley  
A.B. 1899 and M.A. 1902 (Emporia College); B.D. (New York University) 1911  
<sup>1</sup> LS-2700 Bancroft way Bkly 8370  
 Hillyard, Grace Tanquary Oakland  
A.B. (Colorado Teachers' College) 1916  
<sup>21</sup> LS-521 Twenty-ninth st, O Lknd 3089  
 Hines, Irene Winifred Chicago, Ill.  
Ph.B. (University of Chicago) 1909  
<sup>1</sup> LS-2508 Haste st Bkly 2075  
 Hobert, Helen Adele Oakland  
A.B. 1916  
<sup>1</sup> LS-5562 Taft av, O Pied 1764W  
 Hodgen, Margaret Trabue San Francisco  
B.L. 1913; cand. Ph.D. (economics)  
<sup>2</sup> LS-1107½ W. Eighteenth st, Los Angeles  
 Hodgson, Robert Willard Oroville  
B.S. 1916  
<sup>1</sup> Agr-2231 Channing way Bkly 8515  
 Hogan, Winifred Rachel Lancaster  
A.B. (Pomona College) 1914  
<sup>1</sup> LS-2224 Chapel st  
 Holland, Abner W. Berkeley  
B.S. 1916  
<sup>21</sup> Agr-General Delivery  
 Hollenbeck, Irene C. Pasadena  
A.B. 1916  
<sup>21</sup> LS-2059 University av Bkly 2524  
 Hollingsworth, William Wiley San Francisco  
A.B. (Mercer University) 1910; M.A. (Princeton University) 1914; cand. Ph.D. (political science)  
<sup>1</sup> LS-2320 Bancroft way Bkly 1354J  
 Hollins, Samuel Frederick Los Angeles  
A.B. 1915; cand. J.D.; Frank M. Pixley Scholar  
<sup>3</sup> Juris-2318 Telegraph av Bkly 5964  
 Holmes, Adah Roberta San Francisco  
A.B. 1916  
<sup>1</sup> LS-209 Castro st, S F Mrkt 2224  
 Hoobler, Hal Rexford Berkeley  
B.S. 1913  
<sup>1</sup> Med-2521 Durant av Bkly 3437  
 Hooper, William Henry Chicopee Falls, Mass.  
A.B. (Bates College) 1912  
<sup>21</sup> LS-2001 Allston way Bkly 6710  
 Hopkins, Blanche Elizabeth Oakland  
A.B. 1915  
<sup>1</sup> LS-840 Thirty-sixth st, O Pied 7723  
 Hopkins, Helen Sacramento  
A.B. 1916; Joseph Bonnheim Memorial Scholar  
<sup>1</sup> LS-2401 Durant av Bkly 6681  
 Horridge, Frederick Berkeley  
A.B. (College of the Pacific) 1914  
<sup>2</sup> LS-1821 Berkeley way

- Horsch, William Grenville  
Newburyport, Mass.  
B.S. (Massachusetts Institute of Technol-  
ogy) 1913; M.S. 1916  
2 Chem-2001 Allston way Bkly 6710
- Hosmer, Marion Buffington Bairdstown  
A.B. 1916  
1 LS-2435 Hilgard av Bkly 6406
- Hough, Genevieve Oakland  
A.B. 1916  
1 LS-2802 Eleventh av, O Mer 3872
- Houston, Ralph Graham San Francisco  
B.S. (University of Missouri) 1911  
21 LS-1090 Eddy st, S F
- Howard, Charles Walter St. Paul, Minn.  
A.B. (Cornell University) 1904; M.S.  
(University of Minnesota) 1913  
1 LS-University Farm, St. Paul, Minn.
- Howard, Henry Temple Berkeley  
A.B. 1916  
1 Arch-1401 LeRoy av Bkly 72
- Howard, John Cary Oakland  
A.B. 1916  
2 Juris-232 Twenty-ninth st, O  
Oakd 2750
- Howd, Choise Ray Berkeley  
A.B. (McMinnville College) 1912  
1 LS-2604 Dwight way Bkly 139
- Howell, Cora Mary Chino  
A.B. (Pomona College) 1910  
21 LS-2639 College av Bkly 6127W
- Hoyt, Ralph Edwin Berkeley  
A.B. 1915; cand. J.D.  
3 Juris-2025 Lincoln st Bkly 5523
- Hubbard, Elizabeth Ingram Berkeley  
B.L. 1903  
23 LS-2320 Bancroft way Bkly 1358J
- Hudson, Frank Samuel Berkeley  
B.S. 1912  
1 LS-2735 Derby st Bkly 1877W
- Hudson, Maybelle Lena Oakland  
A.B. 1915  
2 LS-1035 Magnolia st, O Oakd 5729
- Hugh, Anna Hellemann Orland  
A.B. (State Teachers College of Colorado)  
1913  
21 LS-2233 Channing way
- Hulking, Frederick Burt Berkeley  
A.B. 1916  
2 Juris-2601 Durant av Bkly 23
- Hummel, Heinz George San Diego  
A.B. 1916  
2 Med-139 Hugo st, S F Snt 234
- Hunt, Ethel Leora Oakland  
A.B. (University of Washington) 1905  
21 LS-2425 Grove st, O Oakd 4958
- Hunt, Mary Edith Oakland  
A.B. 1915  
2 LS-2752 Grove st, O Oakd 9089
- Huntington, Thomas Waterman, Jr.  
San Francisco  
A.B. 1916  
2 Med-2629 Pacific av, S F West 833
- Hurni, Felix Henry Colusa  
B.S. 1913  
4 LS-1421 Henry st Bkly 7644J
- Hutchins, Doris Marianne Honolulu, T. H.  
B.S. 1915  
22 Agr-2925 Ashby av Bkly 2424
- Irving, Alice May Appleton, Wis.  
B.S. (Lawrence College) 1891  
21 LS-2418 Dana st Bkly 3814
- Jackson, Laura Grace Berkeley  
A.B. (Barnard College) 1893  
1 LS-1 Orchard lane Bkly 8339
- Jacobs, Manuel Joseph Berkeley  
B.S. (University of Illinois) 1905  
23 LS-917 Shattuck av Bkly 403
- Jacobs, Myra Mildred Berkeley  
A.B. 1903; M.A. 1905  
23 LS-917 Shattuck av Bkly 403
- Jacobsen, Einar William Oakland  
A.B. 1916  
21 LS-651 Alcatraz av, O Pied 8192W
- James, Harriet Christena Fresno  
B.S. 1913  
1 LS-2540 Fulton st Bkly 1039J
- James, John Thomas San Francisco  
A.B. 1916  
21 LS-2606 Dwight way Bkly 139
- Jarvis, Zola B. San Francisco  
A.B. 1916  
21 LS-2713 Haste st Bkly 214t
- Jenkins, Ruth Shelbyville, Tenn.  
A.B. 1916  
1 LS-2542 Durant av Bkly 3873
- Jessup, Carl Justice Berkeley  
A.B. 1916  
2 Juris-2246 Fulton st Bkly 9023
- Jewell, Ruby San Francisco  
A.B. 1915  
21 LS-440 Eddy st, S F Frkn 185
- Jillson, Bessie Elvira Dinuba  
A.B. (Occidental College) 1916  
21 LS-2428 Channing way Bkly 6408
- Johns, Milton Vernon Pacific Grove  
A.B. 1916  
21 LS-2701 Hearst av Bkly 2421
- Johnson, Aura Lee Fort Madison, Iowa  
B.L. 1906  
3 LS-2528 Chilton way Bkly 8458J
- Johnson, Frances Adams Oakland  
B.S. (Maryland Agricultural College)  
1898; A.B. (Bryn Mawr College) 1902  
21 LS-5832 Lawton av, O Pied 5090W
- Johnson, John William Berkeley  
Ph.B. (University of Rochester) 1909;  
B.D. (Rochester Theological Seminary)  
1910; cand. Ph.D. (philosophy)
- 3 LS-2537 Hilgard av Bkly 8850W

- Johnson, Jonathan Lewis Eugene, Ore.  
B.S. (University of Oregon) 1912  
\*1 LS-2415 Bowditch st Bkly 1952
- Johnston, Joseph Eggleston Los Angeles  
A.B. 1916  
\*1 LS-2902 Channing way Bkly 5585W
- Jonas, Felix Jacob Los Angeles  
A.B. 1916  
\*1 Juris-2318 Telegraph av Bkly 5964
- Jones, Elizabeth Ann La Mesa  
B.S. (Alma College) 1896  
\*1 LS-2329 Channing way Bkly 6062
- Jones, Elmer Harrison Los Angeles  
B.S. (University of Southern California) 1915  
\*1 Min-2248 Telegraph av Bkly 9011
- Jones, Ernestine Marie Oakland  
B.L. 1910  
\*1 LS-3130 Chestnut st, O
- Jones, Harrison Alexander San Francisco  
A.B. 1915; cand. J.D.  
3 Juris-1600 Walnut st
- Jones, Ira L. Perris  
B.S. 1910 and M.A. 1911 (University of Missouri)  
1 LS-1822 Hearst av
- Jordan, Florence Elizabeth Oakland  
A.B. 1916  
1 LS-950 E Fourteenth st, O Mer 1662
- Joseph, Emily Olga San Francisco  
Ph.B. 1898  
1 LS-Cloyne Court Bkly 4710
- Judkins, Myrtle Louise San Jose  
A.B. 1916  
\*1 LS-1510 Bonita av
- Kahl, George Garry New Salisbury, Ind.  
B.L. 1909  
\*2 LS-2239 Parker st Bkly 2495W
- Kant, Frederick William San Francisco  
A.B. 1915  
\*2 Juris-2620 Benvenue av Bkly 7380W
- Karr, Surendra Nath Seattle, Wash.  
A.B. (University of Washington) 1915  
1 LS-2026 Center st Bkly 2503J
- Katsprowsky, Sam Jerusalem, Palestine  
B.S. 1916  
\*1 Agr-2250 Fulton st Bkly 8284
- Katz, Louise Waldman Berkeley  
B.S. (Cornell University) 1900  
\*2 LS-2556 Buena Vista way
- Kaufman, Earle Francis Bkly 9571W  
A.B. 1916 Berkeley
- \*1 LS-1608 Arch st Bkly 6444
- Kedrolivansky, Elisabeth Paul San Francisco  
B.L. 1908; M.L. 1910  
\*3 LS-290 Fortieth st, O Pied 6116W
- Keith, Charles Frank Lincoln, Nebr.  
A.B. 1916  
1 Med-2622 Dana st Bkly 2739J
- Kellogg, Arthur Remington Berkeley  
A.B. 1915 and M.A. 1916 (University of Kansas)  
1 LS-2212A Union st
- Kelly, Genevieve San Diego  
A.B. 1916  
\*1 LS-2641 1/2 Channing way Bkly 2276J
- Kelsey, Mary Alice Berkeley  
A.B. (Smith College) 1915  
2 LS-2715 Parker st Bkly 3206J
- Kendall, John Norman Long Beach  
B.S. 1914; M.S. 1915; cand. Ph.D. (botany)
- 3 LS-2404 Bancroft way Bkly 6425
- Kennedy, Edith Ellis Helena, Mont.  
A.B. 1916  
\*1 LS-2518 Dana st Bkly 8750J
- Kerna, Margaret Elizabeth Salinas  
B.L. 1901  
\*3 LS-2219 Blake st Bkly 5291
- Kett, Charlotte Frances Berkeley  
B.L. 1912; M.L. 1913  
3 LS-46 El Camino Real Bkly 1760
- Kew, William Stephen Webster San Diego  
B.S. 1912; M.S. 1914; cand. Ph.D. (paleontology)
- \*4 LS-2400 Haste st Bkly 4596
- Keves, Donald Babcock Berkeley  
B.S. (New Hampshire State College) 1913; M.A. (Columbia University) 1914; cand. Ph.D. (inorganic chemistry)
- 3 Chem-2606 Bancroft way Bkly 2617
- Key, Elice Allen Rockford, Ill.  
A.B. (Rockford College) 1913  
\*1 LS-2629 Haste st Bkly 3267
- Khazanoff, Amram Jaffa, Palestine  
B.S. 1915  
\*1 Agr-2210 Chapel st Bkly 6037J
- Kiekintveld, Sadie Jeannette San Jose  
A.B. 1915  
2 LS-1615 Arch st Bkly 1235
- Kilgore, Arthur Merrill San Francisco  
LL.B. (Columbia University) 1877  
1 LS-2223 Chapel st
- Kimball, Ella Louise Fresno  
A.B. 1915  
2 LS-2226 Haste st
- Kincaid, Elbert Alvis Berkeley  
A.B. (State College of Washington) 1910; M.A. (Harvard University) 1911
- 1 LS-1214 Walnut st Bkly 2050J
- King, Albert Darius San Luis Obispo  
A.B. 1907 and M.A. 1908 (State University of Iowa)
- 1 LS-2227 Union st Bkly 4520W
- King, Anna Venn Berkeley  
B.L. 1907  
2 LS-2304 Telegraph av Bkly 3426

- King, Henry Safford Worcester, Mass.  
A.B. (Clark College) 1907  
2 LS-2550 Ellsworth st Bkly 3647  
Klingman, Harry Lees Claremont  
A.B. (Pomona College) 1914  
1 LS-2406 Bancroft way  
Kirby, Eda Nettie St. Joseph, Mo.  
A.B. 1916  
1 LS-2210 Atherton st Bkly 4698  
Kirkpatrick, George Gaylord Pomona  
A.B. (Pomona College) 1916  
1 LS-2609 LeConte av  
Kitsuda, Frank Yoshimiche South Pasadena  
A.B. 1916  
1 Med-2308 Virginia st Bkly 6441  
Kiyasu, Kunisada Los Angeles  
A.B. 1916  
1 Med-2308 Virginia st Bkly 6441  
Klein, Emma Anita San Francisco  
A.B. 1916  
1 LS-1704 La Salle av, S F Man 9294  
Knott, Charles Elgin Pomona  
B.S. 1916  
1 Mec-2247 Bancroft way Bkly 7429  
Knowles, Antoinette San Jose  
A.B. (Stanford University) 1906  
1 LS-2248 Telegraph av Bkly 9011  
Knowles, Joseph Leo Sacramento  
A.B. 1915; cand. J.D.  
8 Juris-2538 Durant av Bkly 8361W  
Knowles, Mary Ellen Coalinga  
A.B. (Bates College) 1911  
2 LS-6537 Chabot rd, O Pied 4010W  
Kobayashi, Kinuji Berkeley  
L.L.B. (Kansai University) 1913  
2 LS-2530 Piedmont av Bkly 575J  
Koch, Frederick William Twin Oaks  
B.S. 1896  
1 LS-2043 Berryman st Bkly 5144  
Koehler, Louise Brewster St. Helena  
A.B. 1916  
1 LS-1736 Oxford st Bkly 7247  
Koenig, Martha Emma San Francisco  
A.B. 1916  
1 LS-2237 Atherton st Bkly 4968  
Korski, Julian Berkeley  
J.D. (Vienna) 1898; M.A. 1910; cand.  
Ph.D. (education)  
6 LS-590 Eleventh st. O Oakd 4599  
Kretsinger, G. William Berkeley  
B.S. 1916  
1 Agr-University Farm, Davis  
Kruger, Charles H. Berkeley  
M.A. 1915  
8 LS-1442 Henry st  
Kunsman, Charles Henry State College, N.M.  
B.S. (Pennsylvania State College) 1914;  
M.S. 1915  
12 LS-State College, N. M.
- Kuntz, Olive Pomona  
A.B. 1916  
1 LS-2400 Piedmont av Bkly 5224  
Lagan, Alice Marie San Francisco  
A.B. 1916  
1 LS-198 Haight st, S F Park 2732  
Laird, Fannie Francisco Alturas  
B.L. 1914  
1 LS-2516 Etna st Bkly 8619J  
Lal, Gobind Behari Delhi, India  
A.B. 1907 and M.A. 1908 (University of  
Panjab)  
14 LS-436 Hill st, S F Valen 1634  
Lamb, Edith Jane Champaign, Ill.  
A.B. (University of Illinois) 1914  
1 LS-2327 Bancroft way Bkly 5816  
Lane, Earl Carlton Claremont  
A.B. (Bates College) 1904; M.S. 1912  
2 Chem-1922 Home st Bkly 7571W  
Lane, Helen Anna Pomona  
A.B. (Pomona College) 1916  
1 LS-2527 Hearst av Bkly 765  
Lankovitz, Vasvolod Manila, P. I.  
A.B. 1915  
1 CE-2642 Bancroft way Bkly 653  
Lanphere, Mildred Talitha Bryan, Ohio  
A.B. (Oberlin College) 1916  
1 LS-2327 Bancroft way Bkly 5816  
Larson, John Augustus Boston, Mass.  
A.B. 1914 and M.A. 1915 (Boston Uni-  
versity)  
1 LS-1482 Milvia st  
Lawson, Bertha Alejandra Santa Cruz  
A.B. 1916  
1 LS-2228 1/2 McKinley av Bkly 784  
Lazier, Mabel Gould Santa Rosa  
B.L. 1914  
12 LS-2521 Piedmont av Bkly 3725W  
Lebovitz, Alfred Los Angeles  
A.B. 1916  
2 Juris-2431 Dana st Bkly 547W  
Lehman, Lois Partridge Redlands  
A.B. 1916  
1 LS-Redlands  
Lehmann, Alice Burbank  
A.B. 1916  
1 LS-1728 Delaware st  
Levinson, Herman Joshua Hessel  
Seattle, Wash.  
A.B. (University of Washington) 1912  
3 Chem-2429 Blake st  
Levy, John Hezekiah Oakland  
A.B. 1915; M.A. 1916; LeConte Memo-  
rial Fellow  
2 LS-Columbia University, New York,  
N. Y.

§ In residence first half-year only; in  
absence, second half-year.

- Lewis, Dorothy Indianapolis, Ind.  
A.B. (University of Wisconsin) 1916  
\*1 LS-2616 Parker st Bkly 7186W
- Lewis, Jessie Mildred Wenatchee, Wash.  
A.B. (University of Washington) 1914  
1 LS-2723 Durant av Bkly 9581
- Linforth, Reginald Heber Berkeley  
A.B. 1916  
2 Juris-2740 Derby st Bkly 206W
- Lippman, Marion Hyman San Francisco  
B.S. 1913; M.S. 1914  
\*3 Agr-795 Sutter st, S F Frkn 953
- Livingstone, Théodora de Laplène  
Edinburgh, Scotland  
2 LS-1618A Scenic av Bkly 1603W
- Lloyd, John William Champaign, Ill.  
B.S. (Wheaton College) 1897; B.S.A.  
1899 and M.S.A. 1903 (Cornell University); cand. Ph.D. (pomology)  
2 Agr-2322 Russell st Bkly 7241
- Locke, Charles Edward, Jr. Los Angeles  
A.B. 1916  
2 Med-1251 Second av, S F Snt 1810
- Lockwood, Verne Spokane, Wash.  
A.B. (State College of Washington) 1912  
1 LS-1214 Walnut st Bkly 2050J
- Long, Lydia Hayward  
A.B. (Stanford University) 1914  
2 LS-Hayward Hayward 274J
- Longley, Mabel Harrison San Francisco  
A.B. 1916  
1 LS-2710 Channing way Bkly 9520
- Loomis, Albert Geyer Lexington, Mo.  
A.B. 1914 and M.A. 1915 (University of Missouri)  
1 LS-2310 Bowditch st
- Lorbeer, Floyd Irving Claremont  
A.B. (Pomona College) 1912  
\*3 LS-2226 Haste st Bkly 4227
- Lorbeer, George Coe Berkeley  
A.B. (Pomona College) 1914  
\*2 LS-2001 Allston way Bkly 6710
- Lovett, Roy Irving Paradise  
A.B. 1916  
\*1 LS-2632 Durant av Bkly 5137
- Lowe, Ming Sear San Francisco  
B.S. (Michigan Agricultural College) 1915  
\*1 Agr-701 Grant av, S F China 166
- Lowe, Yarlock Oakland  
A.B. 1916  
1 Juris-6433 Benvenue av, O
- Lucas, Bienie Eugenia Perrysburg, Ohio  
A.B. 1915  
2 LS-1933 Hearst av
- Luck, Julius Alexander Willi Oakland  
B.S. (Cooper Union) 1905  
3 Chem-1922 Oxford st
- Lucksinger, Oscar Frederick El Cajon  
B.S. 1916  
1 Agr-2305 Bancroft way Bkly 7461
- Luke, Jessie Adele Berkeley  
A.B. 1915  
\*1 LS-2322 Rose ter Bkly 3754
- Luke, Thomas Gordon Berkeley  
A.B. 1915  
\*2 LS-2322 Rose ter Bkly 3754
- Lundkvist, Emil Alexander Palo Alto  
Graduate, Gymnasium, Upsala, Sweden.  
1905; B.D. (Pacific Theological Seminary) 1916  
2 LS-2544 Buena Vista way Bkly 510AJ
- Lutzi, Pearl Antoinette Berkeley  
B.S. 1912  
2 LS-2306 Virginia st
- Lyman, Richard Morris, Jr. Oakland  
A.B. 1915; cand. J.D.  
3 Juris-52 Santa Clara av, O Pied 2619
- McBurney, Theodore Chichester Los Angeles  
B.S. (Occidental College) 1915  
\*1 LS-2531 Channing way Bkly 7068W
- McClees, Phoebe Merl Claremont  
A.B. (Pomona College) 1913  
1 LS-2708 Channing way Bkly 1832
- McCord, Olin Harris Santa Ana  
A.B. 1916  
2 LS-2500 College av Bkly 5941
- McDermont, Earl Alexander Long Beach  
A.B. (Occidental College) 1915; M.A.  
(Columbia University) 1916  
1 LS-2500 Bancroft way Bkly 1848
- McDermott, Katharine Burlingame  
B.S. (Oregon Agricultural College) 1915  
\*1 LS-1261 Cabrillo st, Burlingame
- McDonald, William Donald Meriden, Iowa  
A.B. (Grinnell College) 1914  
2 LS-2223 Atherton st Bkly 6680
- McEntyre, Sophia Veritas Berkeley  
A.B. 1915  
1 LS-2515 College av Bkly 7344W
- McGee, Edith Elizabeth Whittier  
A.B. (Pomona College) 1914  
\*1 LS-2434 Piedmont av Bkly 8341
- McGee, John Merritt Carmel  
A.B. 1909 and M.A. 1911 (University of Washington)  
1 Chem-2606 Bancroft way Bkly 2617
- McGlashan, Bliss Isabelle Truckee  
A.B. 1916  
1 LS-2546 Keith av Bkly 7685
- McGlynn, Florence San Francisco  
A.B. 1915  
\*2 LS-2411 Washington st, S F West 4754
- McGovern, Viola Isabel San Luis Obispo  
A.B. 1916  
1 LS-2546 Keith av Bkly 7485
- McGrath, Evelyn Margaret Sierra City  
A.B. 1916  
1 LS-1613 Grove st Bkly 6329J
- McGregor, Elizabeth Colson Holtville  
A.B. (Pomona College) 1910  
\*2 LS-62 Post st, S F Krny 10J

†MacInnes, Isabel Stewart Vancouver, B.C.  
M.A. (Queen's University) 1908  
‡1 LS—University of British Columbia,  
Vancouver, B.C.

Mack, Archie Roy Holton, Kans.  
B.Ped. 1908 and A.B. 1910 (Kansas  
Wesleyan University)  
1 LS—2162 Center st

Mack, Beatrice Jenison Storm Lake, Iowa  
A.B. (Grinnell College) 1913  
1 LS—1364 Scenic av Bkly 2099

Mack, Josephine B. Tucson, Ariz.  
A.B. (Lake Forest College) 1910  
‡1 LS—2417 LeConte av Bkly 5650

McKenzie, Anna Oakland  
B.S. 1916  
1 Chem—3418 Boston av, O Frvl 762J

McKibben, Mary Louise Granville, O.  
Ph.B. (Denison University) 1907  
‡1 LS—1223 Josephine st Bkly 1959

Mackie, Julia Manchester Merced  
A.B. 1902  
1 LS—56 Shasta st Bkly 3318W

Mackie, William Wylie Waukena  
B.S. 1903; M.S. 1916; cand. Ph.D.  
(agronomy)  
2 Agr—56 Shasta st Bkly 3318W

McKinnon, D. Brooke Boston, Mass.  
A.B. (Harvard University) 1914  
1 LS—2001 Allston way Bkly 6710

McMahan, Claudia Los Angeles  
A.B. (University of Michigan) 1910  
‡1 LS—2400 Durant av Bkly 7954

McMurry, Karl Franklin Normal, Ill.  
A.B. (University of Illinois) 1902  
1 LS—182 Vernon ter, O Lksd 1686

†McNair, James Birtley Pasadena  
A.B. 1916  
‡1 LS—436S Madison av, Pasadena

McQuarrie, Irvine St. George, Utah  
A.B. (University of Utah) 1915; Thomp-  
son Memorial Scholar  
1 Med—1932 Home st Bkly 4795W

McRae, Rhoda Catherine Berkeley  
A.B. 1915  
‡1 LS—2243 Virginia st Bkly 7580W

McRoberts, Louise Eberlein Alameda  
A.B. 1916  
1 LS—2627 Hearst av Bkly 3229

Mah, Wing Ngun Berkeley  
A.B. (University of Illinois) 1916  
1 LS—3050 Hillegass av

Maker, Frank Lawrence Oakland  
A.B. 1916  
‡1 Arch—1321 Chestnut st, O

Malloch, Ruth Berkeley  
A.B. 1916  
1 LS—1628 Grove st Bkly 7810

‡ In residence first half-year only; in  
absence second half-year.

Malone, Bertha Evelyn Berkeley  
B.S. (Michigan Agricultural College)  
1900; B.Ped. (Michigan State Normal  
College) 1902; A.B. (University of  
Michigan) 1905  
1 LS—2239 Marin av Bkly 6512J

Marak, Mary Magdalen Hanford  
A.B. (University of Kansas) 1913  
‡1 LS—2533 Durant av Bkly 665

Marchant, Charlotte Daisy Richardson  
Berkeley  
A.B. (Western University of Pennsylvani-  
a) 1906  
‡2 LS—2047 Lincoln st Bkly 8318

Margolis, Abraham Isaac Pittsburg, Pa.  
B.S. (Michigan Agricultural College)  
1914  
‡1 Juris—1314 Taylor st, S F

Maris, Isabel Columbus, O.  
B.S. 1910 and A.B. 1912 (Ohio State  
University)  
1 LS—2521 Dwight way Bkly 7646W

Marachner, Martha Jaeger Berkeley  
A.B. (University of Cincinnati) 1905  
2 LS—1317 Walnut st Bkly 1438J

Marshall, John Albert Berkeley  
B.S. 1907; M.S. 1914; D.D.S. 1916;  
cand. Ph.D. (physiology)  
3 LS—2519½ Durant av Bkly 8705W

Marshall, Mabel Blanche Los Angeles  
A.B. (University of Nebraska) 1915  
1 LS—2421 LeConte av Bkly 3062

Martell, George Arthur Berkeley  
A.B. (Harvard University) 1898; B.D.  
(Newton Theological Institute) 1904;  
M.A. 1913  
‡4 LS—1081 Mariposa av Bkly 6697J

Martin, Anna Claremont  
A.B. (Pomona College) 1916  
1 LS—2611 Durant av Bkly 4525W

Martin, Eugene Klotzke Berkeley  
B.S. 1912  
‡1 Arch—2192 Shattuck av Bkly 1940

Martin, George Handel, Jr. Los Angeles  
A.B. 1915  
2 LS—2422 Durant av Bkly 136J

Martin, Lois Prentiss Stockton  
A.B. 1915  
1 Agr—1550 LeRoy av Bkly 8450W

Martin, Nella Jane Washington, D. C.  
A.B. (West Virginia University) 1904  
1 LS—310 Cambridge apts Bkly 3623

Martin, Robert Carson Redding  
A.B. 1916  
2 Med—1251 Second av, S F Snst 1810

Martin, Walter Given Stanford University  
A.B. (Ottawa University) 1914; Preston  
School of Industry Fellow  
1 LS—2240 Telegraph av Bkly 1249

Marvin, Frank Hobart A.B. 1915: cand. J.D. 3 Juris-271 Twenty-third st, O Oakd 1571	Oakland	Meyer, Freda Rose A.B. 1916 1 LS-2015 Hearst av Bkly 1913W	San Rafael
Mason, Harriet A.B. (University of Wisconsin) 1904 1 LS-2956 Pine av Bkly 3631W	Berkeley	Meyer, Thorbjom P. A.B. (St. Olaf College) 1915 1 Com-2124 Parker st	Berkeley
Munsey, Herbert Nelson A.B. (Ohio State University) 1906: M.S. 1913 21 LS-1634 Milvia st Bkly 3011J	Berkeley	Michel, John A.B. (Nazarene University) 1916 1 LS-2223 Atherton st Bkly 6680	Pasadena
Matthews, Ethel May A.B. 1916 1 LS-1106 Colusa av Bkly 8241	Fort Bragg	Mickel, Laurence A.B. 1916 21 Juris-2110 Durant av	Madera
May, Agnes Dexter B.L. 1902 2 LS-1331 Bonita av Bkly 5857J	Berkeley	Miller, Edward Hughes A.B. (Occidental College) 1898 2 LS-2234 Haste st Bkly 149W	San Leandro
May, Eugene Samuel A.B. (Roanoke College) 1898: M.D. (University of Pennsylvania) 1902 11 LS-1461 Alice st, O Lkad 681	Oakland	Miller, Hugh B.L. 1911 11 LS-170 Vernon ter, O Oakd 8801	Oakland
Mayberry, Alice Cannon B.S. (Mills College) 1916 1 LS-41 Lyon st, S F	Antioch	Miller, Irving B.S. 1904 1 Chem-2942 Claremont blvd Bkly 3890	Berkeley
Mecham, John Lloyd A.B. 1916 1 LS-2431 Dana st Bkly 547W	San Bernardino	Miller, Nelle A.B. (University of Wisconsin) 1904 21 LS-2401 LeConte av	Monroe, Wis.
Meddaugh, Ila Jean A.B. 1916 1 LS-2713 Haste st Bkly 2148	Lakeport	Miller, Rena-Burt Brooks B.S. 1913 2 LS-1531A Arch st Bkly 2514W	Berkeley
Mehl, J. D. A.B. (Pomona College) 1916 1 CE-2616 Virginia st Bkly 6716	Upland	Milliken, Ruth Eleonore A.B. (Pomona College) 1915 2 LS-Euclid apts Bkly 6622	Claremont
Meikle, Theresa Alberta A.B. 1915: cand. J.D. 23 Juris-2526 Hillegass av Bkly 5075W	Ashland, Ore.	Mills, Ethel Frances B.L. 1914 21 LS-2962 Russell st Bkly 4974	Berkeley
Melody, Caroline Elisabeth A.B. 1916 21 LS-2433 Warring st Bkly 8134W	Cloverdale	Mills, Virginia A.B. 1915 1 LS-2434 Piedmont av Bkly 8341	San Jose
Mentz, Vera Louise A.B. 1916 1 LS-2576 Martinez av Bkly 1764	Berkeley	Minchert, Velear Leroy A.B. (Washington and Jefferson College) 1902 4 LS-1417 Forty-seventh av, O	Oakland
Merriam, Ralph Truman A.B. 1915: cand. J.D. 3 Juris-2610 Dwight way Bkly 750W	Pasadena	Minor, Richard Peter A.B. 1916 2 Juris-1720 Euclid av Bkly 1752	Berkeley
Merrick, Gladys Deming A.B. 1915 21 LS-1433 Oxford st Bkly 1874J	Alameda	Mitchell, Lucius Sherman B.S. 1909 2 Agr-2725 Hillegass av Bkly 689J	Decatur, Ill.
Merrill, Frank Daniel B.S. 1906 21 LS-1740 Grant st Bkly 7367	Florence	Mitoma, Shigeru A.B. 1916 1 Juris-1208 E Twelfth st, O Mer 3593	Oakland
Merryfield, Una A.B. (Baker University) 1914 21 LS-2233 Eunice st Bkly 2830W	Sacramento	Mitra, Swarna Kumer B.S. 1914: M.S. 1915 3 Agr-2026 Center st Bkly 2503J	Calcutta, India
Messer, Robert Walcott A.B. (Stanford University) 1911 21 LS-2400 Durant av Bkly 7954	Fresno	Mitrani, Charles Solomon A.B. 1916 1 LS-2415 Durant av Bkly 1712	Los Angeles
Metcalf, Alice Helen A.B. 1916 1 LS-2526 Hilgard av Bkly 1441	Los Angeles	Mohs, Oscar Kempfer A.B. 1916 2 Med-1251 Second av, S F Snst 1810	San Leandro



- Mell, Mary Danielia Los Angeles  
A.B. 1916  
1 LS-2624 Virginia st Bkly 3663
- Molle, Euphrasie Los Angeles  
B.S. (Académie de Coulouse) 1898  
1 LS-2642 Bancroft way Bkly 653
- Monson, Martha Mary Berkeley  
B.L. 1914  
1 LS-2302 Eleventh av, O Mer 1310
- Montgomery, Guy Salt Lake City, Utah  
A.B. (University of Nebraska) 1909  
1 LS-2 Edlington Court apta Bkly 6769
- Moodv, Clarence Lemuel Los Angeles  
A.B. 1916  
1 LS-2610 Buena Vista way Bkly 8044J
- Moore, Emily Comfort Berkeley  
A.B. (Wellesley College) 1908  
1 LS-2616 Woolsey st Bkly 4472
- Moore, Laura Lybrook Los Angeles  
A.B. 1916  
1 LS-2642 Derby st Bkly 3285
- Moore, Lillian Mary Berkeley  
B.S. 1914; M.S. 1915  
3 LS-2736 Haste st Bkly 8680
- Morgan, Florence May Berkeley  
B.L. 1906; M.L. 1907  
12 LS-2627 Dwight way Bkly 2566W
- Morgan, Genevieve Berkeley  
A.B. 1915  
1 LS-2627 Dwight way Bkly 2566W
- Morimoto, Isamu San Rafael  
A.B. (Waseda University) 1913  
1 LS-2308 Virginia st Bkly 6441
- Morrill, Fred Alwyn Emporia, Kans.  
B.S. (Kansas State Normal College) 1916  
1 Com-201 Orange st, O Lkad 2630
- Morris, Frank Ray Glendale  
B.S. 1907 and B.Ped. 1908 (Valparaiso University); A.B. 1912 and M.A. 1913 (Indiana University)  
1 LS-2034 Durant av Bkly 6939W
- Morris, Lota Ray Glendale  
A.B. 1907 and M.A. 1911 (Indiana University)  
1 LS-2034 Durant av Bkly 6939W
- Morrison, Charlotte Watrous Oakland  
A.B. (Stanford University) 1910  
1 LS-665 Vernon st, O Pied 6819
- Morrison, Richard Howard Ellendale, N. D.  
A.B. 1916  
1 Juris-2001 Durant av Bkly 1622
- Morse, Isita Girdler Berkeley  
A.B. 1916  
1 LS-1691 Bush st, S F Frkn 386
- Morse, Roy Robert Oakland  
B.S. 1913  
2 LS-2735 Seminary av, O Elm 661
- Mortenson, Clara Estelle Santa Rosa  
B.S. 1915; M.S. 1916  
2 LS-1531 Arch st Bkly 375
- †Moss, C. R. Baguio, P. I.  
A.B. (Young Harris College) 1897  
2 LS-Baguio, P. I.
- Mueller, Louis Henry San Francisco  
A.B. 1916  
1 LS-1343 Church st, S F Man 4045
- Mulhall, Patrick DeLacy Dublin, Ireland  
1 LS-Pacific Unitarian School Bkly 1141
- Munro, Ruth Amy Berkeley  
A.B. 1916  
1 LS-1410 Bonita av Bkly 4015
- Murdock, Isabelle McRae Nordhoff  
A.B. (State College of Washington) 1912  
1 LS-1214 Walnut st Bkly 2050J
- Murphey, Mary Batterton Berkeley  
B.L. 1914  
1 LS-2323 College av Bkly 3590W
- Murthin, Minnie Elin San Francisco  
A.B. 1911; M.A. 1912  
1 LS-554 Vienna st, S F
- Nagata, Samuel Whittier  
A.B. (Whittier College) 1915  
1 LS-2223 Atherton st Bkly 6680
- Nahl, Jessica Davis San Francisco  
A.B. 1903  
2 LS-2425 College av Bkly 8677
- Najarian, Garabed Hagop Fowler  
B.S. 1916  
1 Agr-2410 Dana st Bkly 7047W
- Nash, Anna Louise Berkeley  
B.P. (Syracuse University) 1889  
1 LS-2820 Piedmont av
- Nass, Frederick Connerts San Francisco  
B.L. 1914  
12 LS-2375 Sutter st, S F West 8309
- Needham, Guy Evan Tracy  
A.B. (Stanford University) 1913  
2 LS-2001 Allston way Bkly 6710
- Neff, Andrew Love Heber City, Utah  
A.B. (Stanford University) 1905  
2 LS-1920A University av
- Neff, Anna Witte San Antonio, Tex.  
A.B. 1916  
1 LS-2234 Haste st Bkly 149W
- Neill, Caroline Bishop  
A.B. 1916  
1 LS-2281 Carlton st Bkly 8438W
- Nelson, Clarence Eugene Victor, Colo.  
A.B. 1916  
1 Juris-2522 Virginia st Bkly 6616W
- Nelson, Leola Alice Nelson  
A.B. 1916  
1 LS-1256 Euclid av Bkly 8068W
- Nelson, Paul Ernest Sandy, Utah  
A.B. (Brigham Young University) 1914  
1 LS-2320 Bancroft way Bkly 1358J
- Neubauer, Ferdinand John Eugene, Ore.  
A.B. 1910 and M.A. 1912 (University of Oregon); cand. Ph.D. (astronomy); Fellow in the Lick Observatory  
4 LS-Mt. Hamilton

Nevin, Lowrie Baird B.S. 1916 1 Agr-2828 Webster st Newby, Lee Clinton B.S. 1910; M.S. 1911 22 LS-2001 Allston way Newell, Bertha Ph.B. 1906 13 Agr-2726 Haste st Newlin, Claude Milton A.B. (Pacific College) 1911; A.B. (Reed College) 1915 11 LS-1920A University av Newman, Joseph Barrett B.L. 1911; M.L. 1912 22 LS-2530 Bancroft way Newton, Roy Frederick B.S. (Northwestern University) 1916 1 Chem-2600 Bancroft way Nicholas, Ruth Adele A.B. 1916 1 LS-606 Thirtieth st, O Nichols, James Clifford Albuquerque, N. M. A.B. 1916 2 Juris-2520 Durant av Nichols, Joseph Benton A.B. (Whittier College) 1914 1 Chem-2222 Bancroft way Nicholson, Anne Mary A.B. (Stanford University) 1904; Ph.D. (Columbia University) 1909 12 LS-1461 Alice st, O Nolan, Emma Laura Ph.B. 1898 5 LS-1307 Hayes st, S F Nordvke, Almeda H. A.B. (Whittier College) 1914 1 LS-2428 Channing way Nourse, Hope Elizabeth A.B. 1916 1 LS-2201 Jefferson st Ogden, Robert Clarence B.S. 1914 1 Juris-2336 Valdez st, O O'Hara, Charles Emmet B.S. 1916 11 Agr-2614 Dwight way Olsen, Sarah Elizabeth A.B. 1916 1 LS-2542 Durant av Olson, Axel Ragnar B.S. (University of Chicago) 1915; Uni- versity Fellow in Chemistry 2 Chem-2001 Allston way Orr, Harriet Knight A.B. (University of Wyoming) 1898 2 LS-4115 Santa Rita av, O Frl 1429W O'Sullivan, Curtis Dion A.B. 1915; M.A. 1916 1 Juris-2717 Hearst av	Los Angeles Bkly 5892J Whittier Bkly 6710 Berkeley Bkly 2885 Newberg, Ore. 1911; A.B. Bkly 7586 Merced Bkly 5185 Chicago, Ill. Bkly 6819 Oakland Oakd 8979 Bkly 1675 Whittier 1914 Oakland Lksd 3864 San Francisco Flmr 1735 Bishop Bkly 6408 Santa Barbara Oakland Oakd 4738 Oakley Concord Bkly 3878 Chicago, Ill. Bkly 6710 Porterville 1898 O Frl 1429W London, England Bkly 5770	Otis, Dorothy Elizabeth A.B. 1916 21 LS-1605 High st, A Ottofy, Frederic Freeman B.L. 1914 23 Juris-175 Vernon ter, O Outhwaite, Leonard A.B. 1916 21 LS-2577 Buena Vista way Overlach, Theodore Wilhelm Cand. Ph.D. (political science) 2 LS-1550 LeRoy av Overman, Helen Doris A.B. (Stanford University) 1916 1 LS-2240 Telegraph av Ozaki, Satoaki B.S. 1916 1 Agr-2308 Virginia st Ozolin, Ian A.B. 1916 21 LS-3001 Dwight way Pal, Nalini Mohan B.S. 1916 21 Com-2353 Prospect st Palmer, Frank Fletcher A.B. (Pomona College) 1908 21 LS-Claremont Palmer, Mabel Ethleen B.L. 1908; M.L. 1912; cand. Ph.D. (eco- nomics) 25 Com-1024 Mariposa av Palmer, Mantie J. A.B. 1916 1 LS-2635 College av Parker, Clarence R. B.S. (Pomona College) 1911 1 LS-2715 Channing way Parker, Cornelia Stratton A.B. 1907 21 LS-38 Moswood rd Parkinson, Oscar Charles A.B. 1915; cand. J.D. 3 Juris-2248 Telegraph av Parks, George Sutton B.S. 1915 and M.S. 1916 (University of Washington) 1 Chem-2406 Dana st Parma, Rosamond B.L. 1908 3 Juris-Berkeley Inn Partridge, Grace A.B. 1915 21 LS-2413 Milvia st Paul, Arthur Gordon A.B. (Occidental College) 1909 21 LS-2515 Dwight way Paul, Hattie Belle B.L. 1910 2 LS-Euclid apts	Alameda Manila, P. I. Oakd 7423 New York, N. Y. Bkly 1514 San Francisco Bkly 8450W Santa Barbara 1916 Bkly 1249 San Francisco Bkly 6441 Damboraja, Russia Bkly 1460J Calcutta, India Bkly 2039 Claremont Livermore Bkly 3252 Oakdale Bkly 7317W Pomona Bkly 6694J Oakland Bkly 237 Stockton Bkly 9011 Seattle, Wash. (University of Washington) Bkly 7713 Santa Barbara Bkly 6370 Berkeley Bkly 2057 Los Angeles Bkly 6565 Crockett Bkly 6822
--	---	---	---

Pearce, Winifred A.B. 1915 2 LS-409 Oak st, S F	Oakland	Plummer, Alice Gertrude B.L. 1914; M.A. 1916 *2 LS-2636 Etna st	Berkeley Bkly 7455
Pearson, Agnes Sophia A.B. 1916 1 LS-2403 Grant st	Berkeley Bkly 1623	Pockstaller, Theodore M.A. 1916 2 LS-2211 Hayes st, S F	Feldkirch, Austria Pac 1665
Pechin, Laurence Hélène B.L. 1914 2 LS-1802 Union st, S F	San Francisco West 7893	Pomeroy, William Cyrus B.S. 1914 2 Mec-2333 Channing way	Berkeley Bkly 8515
Peck, Clarence Warren B.L. 1900 *4 LS-245 Alvarado rd	Soquel Bkly 394W	Pope, Florence Winstanley A.B. 1916 *1 LS-1959 Napa av	Berkeley Bkly 7991
Peck, Stuart Luther B.S. (Pomona College) 1914 1 Chem-2411 Durant av	Claremont Bkly 474	Poppe, Emilie Roberta A.B. 1915 *2 LS-2401 Durant av	Sonoma Bkly 6681
Pemberton, Pearl A.B. 1916 1 LS-2607 Ellsworth st	Ukiah Bkly 4873J	Porter, Cornelia Carolyn A.B. (University of Colorado) 1915 1 LS-2925 Garber st	La Jolla Bkly 2025W
Pendleton, Lois A.B. 1916 2 Med-139 Hugo st, S F	Saratoga Snat 2663	Porter, Dorothy Nell A.B. 1916 *1 LS-1408 Arch st	Berkeley Bkly 1972W
Pendleton, Robert Larimore B.S. 1914; cand. Ph.D. (soil chemistry); University Fellow in Soil Chemistry	Saratoga	Porter, William Keyes B.L. 1910 *1 LS-2529 Hilgard av	North Adams, Mass. Bkly 2261
2 Agr-2342 Eunice st Perkins, Brigg Andrew A.B. (Stanford University) 1906; M.A. 1913; cand. Ph.D. (education)	Berkeley Bkly 7707	Poston, Ruth McClelland A.B. (Stanford University) 1909 1 LS-2955 Linden av	Oakland Bkly 5131J
3 LS-2117 Center st Perry, James Margrave Greenville, S. C. A.B. (Greenville College) 1918; A.B. 1915; cand. J.D.	Bkly 6521	Potts, Mabel Elizabeth B.L. 1910 3 LS-1130 Sixty-sixth st, O	Oakland
3 Juris-2818 Benvenue av Peters, Donovan Otto A.B. 1915; cand. J.D. 3 Juris-18 Hillside court	Bkly 302 Riverside	Powell, Zelda Onita A.B. 1916 1 LS-1627 Linden st, O	Oakland 9311
3 Juris-18 Hillside court Peterson, Ames A.B. 1916 2 Juris-2017 Delaware st	Bkly 7437 Santa Rosa	Poytress, William Henry A.B. 1916 1 LS-2217 Ellsworth st	Oleander Bkly 6822J
2 Juris-2017 Delaware st Peterson, Frances Agnes A.B. 1916 2 LS-2314 Dwight way	Bkly 8685 Berkeley	Prall, David Wight A.B. 1909 and M.A. 1910 (University of Michigan); University Fellow in Eng- lish and Philosophy	Berkeley
Peyton, Lucille A.B. 1915 *1 LS-2526 Hilgard av	Los Angeles Bkly 1441	2 LS-1420 La Loma av Prall, Dorothea A.B. (University of Michigan) 1910 1 LS-1420 La Loma av	Bkly 7348 Berkeley Bkly 7348
Phillips, Edith Henrietta B.S. 1915 *1 Agr-1311 Grove st	Berkeley Bkly 2291	Pratt, Virinda Lynn A.B. 1916 *1 LS-41 Sequoia apts	Berkeley
Phillips, Esther B. A.B. 1909 2 Juris-6459 Benvenue av, O	Oakland	Preble, Jessie Lunt A.B. 1913 2 LS-1710 Arch st	Stockton Bkly 4439
Pickett, William Ellis B.S. (Pacific College) 1915 1 LS-2118 Channing way	Newberg, Ore. Bkly 4819	Preston, Ruth Irene A.B. 1916 1 LS-2235 Durant av	Sacramento Bkly 7929
Piske, Anna A.B. 1916 1 LS-1363 Eighth av, S F	San Francisco Snat 3097	Preuss, Mav Sarah A.B. 1916 1 LS-2608 Benvenue av	Marshfield, Ore. Bkly 2295J
Pleasant, Samuel Augustus B.L. 1915 *3 Juris-1802 Walnut st	Oakland	Puckett, Ermine Sara A.B. (State University of Iowa) 1909 2 LS-2738 Forest av	Berkeley Bkly 6773W

- Purington, Elizabeth Heald  
Albuquerque, N. M.  
A.B. (Pomona College) 1910; M.S. 1911  
15 LS-2223 Chapel st Bkly 5763
- Purvine, Lois  
Petaluma  
A.B. 1916  
1 LS-2542 Durant av Bkly 3873
- Radcliff, Belle Tuttle  
Watsonville  
A.B. 1916  
1 LS-2714 Ridge rd Bkly 9093
- Radin, Paul  
Santa Fe, N. M.  
A.B. (College of the City of New York)  
1902; Ph.D. (Columbia University)  
1911  
11 LS-2417 Bancroft way
- Rainey, William Sears  
San Francisco  
A.B. 1916  
1 LS-2425 LeConte av Bkly 4384
- Rakshit, Hemendra Kisor  
Madison, Wis.  
A.B. (University of Wisconsin) 1914  
1 LS-2026 Center st Bkly 2508J
- Ramsdell, Fred Stanley  
Greeley, Colo.  
Pd.B. 1908 and A.B. 1912 (Colorado  
Teachers' College)  
4 LS-5125 Manila av, O Pied 7282J
- Raphael, Henry  
San Francisco  
B.S. 1913  
11 LS-675 Dolores st, S F Park 6376
- Rattan, Georgia Kinkade  
San Jose  
B.S. 1904; M.S. 1905  
11 LS-2508 Ridge rd Bkly 7869W
- Ray, James Chandler  
Palo Alto  
A.B. 1914 and M.A. 1915 (Stanford University)  
11 LS-2520 Durant av
- Rector, William Gerry  
Merced  
A.B. 1915  
1 LS-3021 Telegraph av Bkly 6874W
- Reed, Frances Ambler  
San Diego  
A.B. (Wellesley College) 1901  
11 LS-2315 Durant av
- Reed, Rhoda Ramona  
San Luis Obispo  
B.S. 1913  
1 LS-2632 Channing way Bkly 731W
- Rehfsch, Caroline  
Berkeley  
A.B. 1915; cand. J.D.  
3 Juris-852 Arlington rd Bkly 8539
- Reid, Khalula Lea  
San Jose  
B.S. 1916  
11 Agr-1513 Henry st
- Reische, Alverda Elva  
Meridian  
A.B. 1915  
2 Med-139 Hugo st, S F Snt 2663
- Rentfrow, Verda M.  
Redlands  
A.B. (University of Redlands) 1916  
1 LS-1619 Walnut st Bkly 2611J
- Resleure, Jacques François  
Sydney, Australia  
A.B. 1915; cand. J.D.  
3 Juris-424 Sixty-second st, O Pied 6635J
- Reynolds, Dorothy  
San Francisco  
A.B. 1916  
1 LS-2723 Durant av Bkly 9531
- Rhodes, Lou Clark  
Arkadelphia, Ark.  
A.B. (Henderson Brown College) 1908  
11 LS-2550 Benvenue av Bkly 2428J
- Rhodes, Robert Clinton  
Arkadelphia, Ark.  
A.B. (Henderson Brown College) 1906;  
A.B. 1907 and M.A. 1908 (Vanderbilt  
University); cand. Ph.D. (zoology)  
2 LS-2550 Benvenue av
- Richardson, Burt Parker  
Berkeley  
B.S. (Drury College) 1901; Ph.B. (University  
of Chicago) 1904; Ph.D.  
(Leipzig) 1912  
2 LS-2826 Parker st Bkly 3683
- Richardson, Violet  
Berkeley  
B.S. 1912  
3 LS-2014 Virginia st Bkly 7142
- Richter, Max Clemens  
San Francisco  
B.S. 1909  
11 Agr-98 Hillcrest rd Bkly 9115
- Rideout, Kathleen Grace  
Berkeley  
A.B. (Stanford University) 1914  
11 LS-1609 Walnut st Bkly 4258W
- Ringe, Rudolph Herman  
San Francisco  
Ph.G. (New York College of Pharmacy)  
1898; A.B. 1916  
1 LS-910 Treat av, S F Men 6539
- Roach, Walter Bulkley  
Watsonville  
A.B. (Denison University) 1915  
11 LS-2207 Atherton st Bkly 9144W
- Roan, Everett Hale  
Pasadena  
12 Juris-409 Thirty-eighth st, O
- Roberts, Ralph Smith  
Los Angeles  
A.B. (Stanford University) 1916; Pres-  
ton School of Industry Fellow  
1 LS-2240 Telegraph av Bkly 1249
- Robinson, Lloyd Nash  
Berkeley  
B.E. (Union College) 1911  
1 Mec-2516 Virginia st Bkly 8480
- Robinson, Verna Mae  
Canby, Ore.  
A.B. 1916  
1 LS-2123 Kittridge st Bkly 8765
- Rodebush, Worth Huff  
Berkeley  
A.B. 1912 and M.A. 1914 (University  
of Kansas); cand. Ph.D. (physical chem-  
istry); University Fellow in Chemistry  
2 LS-2606 Bancroft way Bkly 2617
- Rogers, Viola Grace  
Oakland  
A.B. 1915  
11 LS-2540 Wakefield av, O Frvl 1876
- Root, Dan Edwin  
Redding  
A.B. 1916  
12 Juris-2425 LeConte av Bkly 4334
- Rose, Helen Grace  
Los Angeles  
A.B. 1916  
1 LS-2226 Chapel st Bkly 879



Scott, Ewing Carruth A.B. (Stanford University) 1916 1 Chem-2600 Bancroft way Scrieggy, Martha Louise A.B. 1916 1 LS-1256 Euclid av Searls, May Lavinia A.B. 1915 2 LS-2317 Durant av Sebastian, Reuben Louis A.B. (University of Utah) 1912; M.S. 1913; Ph.D. 1916 15 Chem-1934 Berkeley way Servaty, Avis Justina A.B. 1916 1 LS-2226 Haste st Shane, Charles Donald A.B. 1915; cand. Ph.D. (astronomy); Fellow in the Lick Observatory 2 LS-Mt. Hamilton Shannon, Pearl Eugenia A.B. 1916 1 LS-2208 Derby st Shapiro, Aaron David A.B. 1915; M.S. 1916 1 Agr-1933 Home st Sharps, Mary Alice A.B. (Pomona College) 1916 1 LS-2531 Ridge rd Sheldon, Hiram Franklin B.S. 1901 1 LS-1709 Bancroft way Sheppa, Caroline Louise A.B. 1916 1 LS-2430 Bancroft way Sherer, Blanche Evelyn A.B. 1916 1 LS-1637 Oxford st Shrman, Lillie Margaret B.L. 1909 1 LS-2328 Warring st Shew, George Konhall A.B. 1916 2 Med-1739 Carlton st Shew, Lynne Lee A.B. 1916 1 LS-1739 Carlton st Shinji, George Orihay B.S. 1912; M.S. 1913; cand. Ph.D. (en- tomology) 3 Agr-2235 Dana st Shuck, Gordon Russell E.E. (University of Minnesota) 1906 1 Mec-1484 Harrison st, O Shuman, Blair Sterrett A.B. (Yale University) 1915; cand. J.D. 3 Juris-2330 Telegraph av Shurtliff, Frances Lodema A.B. 1916 1 LS-2618 College av	Iola, Kans. 1916 Bkly 6819 Santa Cruz Bkly 8068W Berkeley Berkeley M.S. Bkly 7635 Fresno Bkly 4227 Oakland Bkly 2148 Monson Bkly 3105 New York, N. Y. Bkly 8433 Upland Bkly 6485 Ventura Bkly 7874 Pacific Grove Bkly 4811 Los Angeles Bkly 2089J Sacramento Bkly 8358W San Jose Bkly 5540 San Jose Bkly 5540 San Jose Bkly 4216 Minneapolis, Minn. 1906 Santa Barbara Bkly 4429 Eureka Bkly 7317J	Silberstein, Edith B.S. 1909 1 Chem-2108 Grant st Simpson, Miriam Elizabeth A.B. 1915 1 LS-Univ. Cottage No. 5 Simpson, Victor Eugene A.B. 1916 12 Juris-Oxford apts Sittig, Helen A.B. 1916 1 LS-1216 Oxford st Sitton, William Ashley A.B. 1915; cand. J.D.; Joseph Bonnheim Memorial Scholar 3 Juris-2318 Telegraph av Slocum, Flora Hazel B.L. (Mills College) 1914 3 Ar-h-2713 Haste st Small, Edith B.L. 1914 1 LS-2416 Durant av Smilie, Effie Innes B.L. 1907 1 LS-825 Fallon st, O Smith, Adelaide B.S. (Wellesley College) 1893; A.B. (University of the Cape of Good Hope) 1905; M.S. 1911 14 LS-2237 Piedmont av Smith, Clarence Nevil A.B. 1912 13 LS-2101 Telegraph av, O Smith, Harry Pratt A.B. 1916; Research Fellow on the Hooper Foundation, second half-year 1 LS and 2 Med-Hooper Research Lab. S F Smith, Jessie Spaulding A.B. 1916 1 LS-1420 LeRoy av Smith, Katharine Drew A.B. (Smith College) 1910 1 LS-1618 La Loma av Smith, Laurence Hammond B.S. 1912; LL.B. (Harvard University) 1916 1 LS-Mills bldg. S F Smith, LeRoy Burns A.B. (Cornell University) 1901; B.S. 1916 13 Agr-2517 College av Smith, Norman Charles B.S. 1916 1 Agr-2316 Bowditch st Soo-Hoo, Clara B.L. 1914; M.A. 1915 13 LS-2114 Channing way	San Francisco Bkly 7219 Sebastopol Bkly 5801 East Auburn Bkly 6262J Berkeley Bkly 1074J Sacramento Bkly 5964 Fair Oaks Bkly 2148 New Westminster, B. C. Bkly 2850W Oakland Oakd 9337 Chicago, Ill. A.B. Bkly 8682W Albion, Idaho Lksd 1700 Kansas City, Kans. Snat 600 Pasadena Bkly 4988 Berkeley Bkly 4039 San Diego Grfd 666 Los Altos Angels Camp Bkly 6504 San Rafael
--	--	--	--

- Speight, Harold Edwin Balme Berkeley  
M.A. (University of Aberdeen) 1908  
11 LS-3008 Benvenue av Bkly 1691J
- Spencer, Forrest Eugene San Francisco  
B.L. 1911; A.B. 1913; M.A. 1914; The-  
rese F. Colin Fellow  
4 LS-University of Madrid, Spain
- Spencer, Louisa Maria Charlottesville, Va.  
A.B. (Charlotte Institute) 1884  
21 LS-2215 Fulton st Bkly 6045J
- Spiers, Marguerite Louise San Jose  
A.B. 1916  
21 LS-3015 Benvenue av Bkly 3657J
- Spindt, Herman Adolph Pasadena  
A.B. 1916  
1 LS-2600 Durant av Bkly 2598
- Spofford, James Wallace Berkeley  
B.L. 1913; M.A. 1915; cand. Ph.D.  
(political science); University Fellow  
in Political Science  
3 LS-2114 Durant av Bkly 7426J
- Squire, Josephine Berkeley  
A.B. 1916  
11 LS-2742 Prince st Bkly 5151
- Staehling, Charles Christian Missoula, Mont.  
Ph.B. (University of Chicago) 1908  
1 Com-1437 LeRoy av Bkly 2816J
- Stanoyevich, Milivoj Stoyan New York, N. Y.  
Graduate (Zajecar Gymnasium) 1902;  
Graduate (Belgrade University) 1907;  
M.L. 1914  
14 LS-2420 S. Atherton st Bkly 2919
- Stanton, Hazel Martha The Dalles, Ore.  
A.B. (University of Nebraska) 1912  
21 LS-2327 Bancroft way
- Stayner, Elizabeth Hempstead Salt Lake City, Utah  
A.B. (University of Utah) 1914  
1 LS-2333 Channing way Bkly 5468J
- Stearns, Stella Burger Berkeley  
A.B. (University of Minnesota) 1892;  
M.A. (Columbia University) 1906  
12 LS-2708 Channing way
- Stebbins, Marian Long Sacramento  
A.B. 1902  
1 LS-6537 Chabot rd, O Pied 4010W
- Steinbrunn, Wilhelm Chris San Francisco  
A.B. 1913; M.A. 1914; cand. Ph.D.  
(German)  
14 LS-Harvard Military School, Los  
Angeles
- Stephens, Hazel Lucile Redding  
A.B. 1916  
1 LS-2434 Piedmont av Bkly 8341
- Stevens, Ida May Napa  
A.B. 1915; M.A. 1916  
2 LS-2608 Benvenue av Bkly 2295J
- Stevens, John Bartlett Juneau, Alaska  
A.B. (Alma College) 1898  
21 LS-Euclid apts Bkly 7492W
- Stewart, Lloyd Lincoln Los Angeles  
A.B. (Stanford University) 1914; M.A.  
1916  
21 Min-2329 College av
- Stewart, Mildred Penrose Germantown, Pa.  
A.B. (Vassar College) 1908  
1 LS-2614A Regent st
- Stewart, Mirabel Minnie Stockton  
A.B. 1916  
1 LS-2709 Channing way Bkly 8528
- Stickel, Jessie Ernestine Sonoma  
A.B. 1915; M.A. 1916  
2 LS-1234 Second av, S F Snt 1070
- Stock, Chester San Francisco  
B.S. 1914; cand. Ph.D. (palaeontology);  
James M. Goewey Scholar  
3 LS-492 Seventh st, S F
- Stockton, Frank Berkeley  
A.B. (University of Nebraska) 1907  
2 LS-1805 Shattuck av Bkly 4114W
- Stone, Marian Sacramento  
B.L. 1905  
22 LS-1520 Hawthorne ter Bkly 1120
- Storer, Tracy Irwin Oakland  
B.S. 1912; M.S. 1913  
5 LS-2611 Durant av Bkly 4525W
- Stover, Noble McMurry Berkeley  
B.S. 1910  
2 Agr-2918 Benvenue av
- Strasburg, Elizabeth Los Angeles  
A.B. 1916  
1 LS-2642 Derby st Bkly 3285
- Strom, Otto C. Hillsboro, N. D.  
A.B. (University of North Dakota) 1906;  
LL.B. 1913, LL.M. and M.P.L. 1914  
(National University of America)  
21 LS-Lafayette apts
- Stubbs, Ruth Gray Berkeley  
A.B. 1916  
21 LS-1516 Spruce st Bkly 3439W
- Sturges, David Whittom Claremont  
A.B. (Pomona College) 1916  
1 LS-2431 Dana st Bkly 547W
- Sturges, Robert Wright Claremont  
A.B. (Pomona College) 1912  
1 LS-2431 Dana st Bkly 547W
- Suermont, Margaretha Pauline Berkeley  
A.B. 1916  
1 LS-2735 Hillegass av Bkly 1720J
- Suganuma, Hirotsuke Tokio, Japan  
LL.M. (Imperial University of Japan)  
1914  
11 LS-2305 Santa Clara av, A Ala 539

\* In residence first half-year only; in  
absence, second half-year.

- Sullivan, Edgar Francis San Francisco  
A.B. 1913  
1 LS-2571 Carlton st Bkly 8240W
- Sullivan, James McGeough San Francisco  
A.B. (St. Ignatius University) 1914  
12 Med-759 Buena Vista av, S F Mrkt 8928
- Sutherland, William John Whittier  
A.B. (Oberlin College) 1910  
1 LS-2515 LeConte av Bkly 6994
- Swalm, Wesley Pasadena  
A.B. (Nazarene University) 1915  
1 LS-1918 Francisco st
- Swan, Ethyl Frances Oakland  
A.B. (University of Wisconsin) 1911  
12 LS-2430 Bancroft way Bkly 4811
- Symmes, Mabel San Francisco  
A.B. 1896  
13 Agr-2231 Piedmont av Bkly 1303
- Symons, Spencer Wesley Sacramento  
A.B. (University of Wyoming) 1911;  
LL.B. (University of Michigan) 1914;  
M.A. 1916  
2 LS-2001 Allston way Bkly 6710
- Szynter, Mary Helen Berkeley  
A.B. 1915; M.A. 1916  
2 LS-2411 Fourth st
- Taber, Carol Springfield, Mo.  
A.B. (Drury College) 1916  
1 LS-2702 Virginia st Bkly 6789
- Taber, Edna May Oakland  
A.B. 1916  
1 LS-451 Hudson st, O Pied 4740W
- Tabrett, Amy San Francisco  
B.L. 1901  
2 LS-3847 Twenty-first st, S F Man 4112
- Taggart, Harold Francis Berkeley  
A.B. (Earlham College) 1915  
1 LS-2704 Virginia st Bkly 4695W
- Talbert, Helen Berkeley  
A.B. 1916  
1 LS-2021 Channing way Bkly 663
- Talbert, Wilford Ebenezer Berkeley  
A.B. 1913 and M.A. 1914 (Stanford University); LL.B. (Lincoln Jefferson University) 1914  
2 LS-2021 Channing way Bkly 663
- Talbot, Parker Santa Rosa  
B.S. 1909  
1 LS-1219A Oxford st Bkly 3784
- Taliaferro, Nicholas Lloyd Redlands  
B.S. 1913  
2 LS-2607 Hearst av Bkly 5913
- Tanquary, Ruberta Oakland  
A.B. (Colorado State Teachers' College) 1912; M.A. 1916; Paget Scholar  
3 LS-521 Twenty-ninth st, O Lkcd 3089
- Tateishi, Jizaemon San Francisco  
A.B. (Stanford University) 1913  
1 LS-108 St. Anne st, S F
- Taylor, Charles Verne Sacramento  
B.L. 1914; cand. J.D.  
3 Juris-2231 Dana st Bkly 6361J
- Taylor, Charles Vincent Mt. Morris, Ill.  
A.B. (Mt. Morris College) 1911; M.A. 1916  
2 LS-Faculty Club Bkly 2855
- Taylor, James Sturdevant Pomona  
A.B. 1916  
1 LS-2207 Atherton st Bkly 9144W
- Taylor, Olive Payn Riverside  
A.B. 1916  
1 LS-2709 Channing way Bkly 8528
- Thayer, Laura Eliza Gilroy  
B.S. 1909  
2 LS-1633 Bonita av Bkly 8382
- Thiele, Carl Louis Fresno  
A.B. 1916  
1 LS-1711 Euclid av Bkly 9306
- Thomas, Bert Stanford San Francisco  
A.B. 1916  
2 Med-2869 Bush st, S F Flmr 2054
- Thomas, Evelyn Edwardes Berkeley  
A.B. 1916  
1 LS-2729 Buena Vista way Bkly 3724
- Thomas, Kathryn Elise Oakland  
A.B. 1916  
1 LS-2949 Summit st, O Oakd 2803
- Thomas, Mildred Frances San Francisco  
A.B. 1916  
1 LS-1837 Broderick st, S F West 7717
- Thomas, Robert Rugg San Francisco  
B.L. 1914; cand. J.D.  
3 Juris-2729 Buena Vista way Bkly 3724
- Thompson, Hazel Odette North Yakima, Wash  
A.B. 1916  
1 LS-1243 Carlotta st Bkly 5050J
- Thone, Frank E. A. La Jolla  
B.S. (Grinnell College) 1915  
1 LS-Scripps Inst., La Jolla
- Tibbets, Sydney Arnold Campbell  
B.S. 1904  
3 Chem-1613 Josephine st Bkly 5935
- Tillson, Olive Hanford  
A.B. 1915  
1 LS-2206 Atherton st Bkly 4208J
- Timm, Caroline Pulcifer Oakland  
B.L. 1901  
12 LS-696 Twenty-ninth st, O Oakd 3281
- Tindell, Hazel Lodi  
A.B. 1915  
1 LS-Cambridge apts
- Tomb, George Marysville  
A.B. 1916  
1 LS-2526 Hilgard av Bkly 1441



Torrey, Francis Ansley A.B. 1915 1 LS-2523 Ridge rd Tregas, William Richard A.B. 1916 1 LS-1623 Grove st Trueblood, Jessie Newsom B.L. 1915 2 LS-3114 Eton av Tucker, Claire Althea A.B. 1916 1 LS-2401 Durant av Turner, Elsie Lee B.L. 1889 1 LS-255 Ridgeway av. O Twan, Yu Hwa Nanchang, Kiangsi, China B.S. 1916 1 Chem-2221 Dwight way Underwood, Raymond Liftchild B.S. 1915 1 LS-2401 Durant av Urner, Catherine Murphy A.B. (Miami University) 1912 3 LS-1700 Walnut st Vail, Katharine Ransome A.B. 1915 1 LS-2242 Seventh av. O Valentine, Lucile A.B. 1916 1 LS-788 Georgia st, Vallejo Van Gorder, Arthur Grant B.S. 1897 3 LS-3025 Colby st Van Gulpen, M. Helen B.L. 1910; M.L. 1911 1 Juris-2008 Prince st Vanleer, Blake Ragdale B.S. (Purdue University) 1915 1 Mec-2218 Durant av Van Zandt, John Parker B.S. 1914; cand. Ph.D. (physics); Whit- ing Fellow 3 LS-2617 LeConte av Varney, Madeleine B.S. 1904 1 Chem-3282 Laguna st, S F Vaughan, Francis Edward B.S. 1912; M.S. 1916 2 LS-2400 Haste st Vedder, Milton William A.B. 1916 2 Juris-1780 La Loma av Venable, Reid McDowell B.L. 1912 1 LS-2533 Hillegass av Vogt, George McGill A.B. 1916 1 LS-1935 Tenth av. O von Geldern, Hans A.B. 1916 2 Med-2501 Ridge rd	Orange Bkly 5564J Berkeley Oakland Pied 1572W Gold Hill, Ore. Bkly 6681 Oakland Pied 5304 Bkly 464 Berkeley Bkly 6681 Berkeley 1912 Bkly 6453 Oakland Mer 1052 Delaware, Ohio Val 728W Los Angeles Bkly 3845W San Francisco Bkly 2844 Berkeley Bkly 1934 San Diego Bkly 4010 San Francisco Bakersfield Bkly 4596 Seattle, Wash. Bkly 8716 San Luis Obispo Bkly 561W Livermore Mer 608 San Francisco Bkly 1335	von Gruening, John Paul A.B. 1916 21 LS-2617 Haste st Wadsworth, Leo Ainslie A.B. 1916 1 LS-2600 Durant av Wagner, Carroll Marshall B.S. (University of Oregon) 1916 21 LS-2604 Etna st Wagner, Nada B. A.B. 1916 21 LS-1929 Parker st Wahrhaftig, Matt B.L. 1914; cand. J.D.; Joseph Bonnheim Memorial Scholar 3 Juris-2318 Telegraph av Waksman, Selman Abraham New Brunswick, N. J. B.S. 1915 and M.S. 1916 (Rutgers Col- lege); University Fellow in Physiology 1 LS-2320 Bancroft way Wales, Anita Marie A.B. 1916 1 LS-3333 Nineteenth st, S F Walker, Henrietta Evans A.B. (University of Michigan) 1909 2 LS-378 Fairmount av. O Wall, Ethel Carolyn A.B. 1916 1 LS-1738 Alcatraz av Wallace, Thomas Damourjian A.B. 1915; cand. J.D. 3 Juris-2120 Kittridge st Walton, Strother Perry B.L. 1914; cand. J.D. 3 Juris-2634 Bancroft way Wampfler, Cora A.B. 1915 1 LS-1500 Arch st Wapple, Albert Russell B.S. 1914; M.A. 1915 3 LS-1650 Fulton st, S F Ward, Harriett Beecher M.D. (Hahnemann Medical College, Chicago) 1896 1 LS-2315 Rose ter Ward, John Albert B.S. (Leander Clark College) 1889; B.D. (University of Chicago) 1894 1 LS-1609 Rose st Warner, Raymond Eugene A.B. (University of Oregon) 1915 1 LS-2320 Hilgard av Washburn, Carolyn Adele B.L. 1910 2 LS-30 Arden rd Washburne, Carleton Woolsey San Francisco A.B. (Stanford University) 1912 1 LS-316 Pierce st, S F	Altadena Bkly 5077W Sutter Bkly 2598 Ashland, Ore. Bkly 5602 San Diego Bkly 3435W Orangevale Bkly 5964 Man 4700 Oakland 1909 Berkeley Reedley Bkly 2090 Sanger Bkly 6744 Berkeley Bkly 2232W San Francisco Elgin, Ill. Bkly 523J Berkeley 1889; B.D. Oakland Bkly 2221 San Francisco Mrkt 6344
---	--	---	--

- Watenpau, Frank Marion      Ontario  
A.B. (Pomona College) 1916  
1 LS-Oxford apts      Bkly 2385W
- Watson, Alice Spaulding      Oakland  
A.B. 1916  
2 Juris-825 Adeline st, O      Oakd 6539
- Watson, Thomas      Colton  
M.A. 1916  
2 LS-2001 Berkeley way
- Watts, Arthur Pryor      Los Angeles  
A.B. (Occidental College) 1914; M.A.  
1916  
3 LS-2400 Durant av      Bkly 7954
- Waugh, Arthur Laurence      Berkeley  
A.B. 1916  
1 LS-1639 Euclid av
- Wax, Leo William      New York, N. Y.  
B.S. 1907 and M.A. 1910 (Columbia  
University)  
1 LS-1529 Steiner st, S F      West 7415
- †Wav, Charles Caverno      Berkeley  
B.S. 1913; cand. Ph.D. (citriculture)  
18 Agr-818 Cornell av      Bkly 6039W
- Waynick, Dean David      Spokane, Wn.  
B.S. (University of Washington) 1914;  
M.S. 1915; cand. Ph.D. (soil chemis-  
try); James M. Goewey Scholar  
3 Agr-2214 Durant av      Bkly 5437W
- Weatherby, Ray Virgil      Buffalo, Mo.  
A.B. (Drury College) 1914  
2 Arch-2735 Hillegass av      Bkly 1720J
- Weatherhead, Ray Eugene      Newberg, Ore.  
A.B. (Pacific College) 1914  
1 LS-2118 Channing way      Bkly 4819
- Webber, Marjorie      Berkeley  
B.L. 1911; M.L. 1912  
1 LS-2327 Hilgard av      Bkly 7938W
- Weber, Hilmar Hermann      Berkeley  
A.B. 1910 and M.A. 1911 (Harvard Uni-  
versity); M.L. 1914  
14 LS-1811 La Loma av      Bkly 7494
- Weed, Earl Henry      Claremont  
A.B. (Pomona College) 1914  
3 LS-2228 Atherton st      Bkly 6680
- †Weithaase, Paul Emil      Berkeley  
A.B. 1898 and M.A. 1899 (Bucknell  
University); cand. Ph.D. (German)  
15 LS-2248 Telegraph av      Bkly 9011
- Weller, Earle Vonard      Los Angeles  
A.B. (Occidental College) 1909; M.A.  
(University of Southern California)  
1912; cand. Ph.D. (Latin)  
3 LS-1517A Shattuck av
- Wells, Robert John      Berkeley  
A.B. 1903 and M.A. 1904 (University of  
Colorado)  
12 LS-2629A Virginia st
- Welo, Lars Alvin      Church's Ferry, N. D.  
B.S. (North Dakota Agricultural College)  
1911; M.S. (University of Illinois)  
1915; Whiting Fellow  
2 LS-2614 Hilgard av      Bkly 3335
- Wembridge, Harry Aribert      Portland, Ore.  
A.B. (Reed College) 1916  
1 LS-"High Acres"      Bkly 4928J
- Wendling, Florence      San Francisco  
A.B. (Stanford University) 1912  
1 LS-996 Haight st, S F      Park 158
- Wendt, Gustav Henry      Sacramento  
B.S. 1916  
1 Agr-2425 LeConte av      Bkly 4334
- West, Charles Henry      Ogden, Utah  
B.S. (Utah Agricultural College) 1913  
3 Agr-2519 Ridge rd
- Westbrook, Katherine Helen      Alameda  
A.B. 1916  
1 LS-2709 Channing way      Bkly 8528
- Wetmore, Elizabeth Smith      Stockton  
B.S. 1904  
1 LS-2400 Haste st      Bkly 4596
- Wetmore, Frances Amelia      Oakland  
A.B. 1916  
1 LS-528 Sixty-first st, O      Pied 3712W
- Whidden, Thomas Marvin      Portland, Ore.  
A.B. (Harvard University) 1916  
2 Agr-1809 Euclid av
- Whipple, Vera Lynn      Oakland  
A.B. 1916  
1 LS-2801 Stuart st      Bkly 6348
- Whitehead, Virginia      Oakland  
B.S. 1905  
1 LS-601 Thirty-third st, O      Pied 647W
- Whiton, Emma Kirtland      Berkeley  
A.B. (Colorado College) 1909  
2 LS-1534 Arch st      Bkly 2230
- Whitton, John Boardman      Oakland  
A.B. 1916  
2 Juris-383 Hawthorne av, O      Oakd 2702
- Wilcox, Genevieve      Mt. Vernon, Wn.  
A.B. (Whitworth College) 1910  
1 LS-1740 Walnut st      Bkly 7892
- Wilder, Alice Earl      Oakland  
B.L. 1912  
1 LS-676 Fairmont av, O      Pied 6129W
- Wiley, Henry Orton      Berkeley  
A.B. (College of the Pacific) 1910  
1 LS-2306 McKinley av      Bkly 408
- Williams, Arthur Robinson      Norwalk, Conn.  
A.B. (Yale University) 1907; Ph.D.  
1916  
7 LS-2415 Durant av      Bkly 1712
- Williams, Clara Malvina      Porterville  
A.B. (Pomona College) 1916  
1 LS-2224 Chapel st
- Williams, Donald Clark      Sacramento  
A.B. 1916  
1 Juris-2539 Durant av      Bkly 5945

Williams, Mary Floyd                      Oakland  
 B.L. 1913; cand. Ph.D. (history)  
 4 LS-2428 Hillside av                      Bkly 4170

Williams, Miriam Blanche                  Corvallis, Ore.  
 B.S. (Oregon Agricultural College) 1916  
 1 LS-2428 Channing way                  Bkly 6408

Williams, William Howell                  Oakland  
 Graduate (U. S. Military Academy)  
 1902; cand. Ph.D. (chemistry)  
 6 Chem-5467 Shafter av, O              Pied 5876

Williamson, Jean Myrtle                  Berkeley  
 A.B. 1916  
 1 LS-2502 Bancroft way                  Bkly 1848

Wilson, David John                          Ogden, Utah  
 A.B. (Brigham Young University) 1914  
 1 Juris-2320 Bancroft way              Bkly 1858J

Wilson, Frances Hamrick                  Berkeley  
 A.B. 1915; cand. J.D.  
 2 Juris-2748 Derby st                      Bkly 1469W

Wilson, Maud Eunice                          Stockton  
 B.L. 1908  
 1 LS-1022 Filbert st, O                      Lksd 1096

Wilson, Neill Compton                      Oakland  
 A.B. (Stanford University) 1912  
 1 LS-584 El Dorado av, O                  Pied 1927

Wilson, Stanley Vernon                      Corning  
 A.B. 1916  
 2 Juris-2522 Warring st                  Bkly 2995J

Wilton, Effie Maude                          Pomona  
 A.B. 1916  
 1 LS-2956 Linden av                          Alameda

Winlow, Clara Vostrovsky                  Alameda  
 A.B. (Stanford University) 1895  
 2 LS-1204 Lincoln av, A                  Ala 2818

Winterfield, Gertrude Browne              St. Paul, Minn.  
 A.B. (University of Minnesota) 1906  
 1 LS-2240 Telegraph av                  Bkly 1249

Winterfield, Iva                                  Iowa Falls, Iowa  
 A.B. (Ellsworth College) 1913  
 1 LS-2240 Telegraph av                  Bkly 1249

Wisner, Margaret Byrne                      Parma, Idaho  
 Ph.B. (University of Wooster) 1913  
 1 LS-1606 Oxford st                          Bkly 4635J

Wisner, Oscar Francis                          Fruitvale  
 A.B. 1881, M.A. 1883, and D.D. (Hon.)  
 1900 (Wooster College); B.D. (Prince-  
 ton Theological Seminary) 1885  
 1 LS-2115 Hearst av                          Bkly 5171W

Witherow, Herbert Carlisle                  Rivera  
 B.S. 1914  
 1 Agr-2332 College av                          Bkly 6689

Withers, Theodore Lyster                  Reno, Nev.  
 A.B. (University of Nevada) 1915  
 2 Juris-Channing apts                      Bkly 8426W

Wolfenden, Andrew McLellan              Berkeley  
 B.L. 1901; M.A. 1916  
 3 LS-1711 Sonoma av                          Bkly 9074W

Wood, Mary Olive                              San Francisco  
 A.B. 1916  
 1 LS-3860 Greenwood av, O

Woodard, Coy Blanche                      Portland, Ore.  
 A.B. (Indiana University) 1906  
 21 LS-1929 Haste st

Woodard, Raymond Clarence                  Haviland, Kans.  
 A.B. (Friends University) 1907; A.B.  
 (Haverford College) 1908  
 21 LS-2400 Durant av

Woodcock, Edgar                              Eureka  
 B.S. 1914  
 3 LS-1651 Market st, S F                  Mrkt 296

Woods, Ruth Cecilia                          Richmond  
 A.B. 1916  
 1 LS-1725 Clinton av, R

Woodward, Gertrude Berkshire              San Francisco  
 A.B. 1916  
 1 LS-2523 Ridge rd                          Bkly 8482W

Wormser, Dorothy                              San Francisco  
 A.B. 1916  
 1 Arch-2417 LeConte av                  Bkly 5650

Wormser, Mary                                  San Francisco  
 A.B. (Stanford University) 1913  
 11 LS-635 Sutter st, S F                  Frkn 8800

Wright, Douglas, Jr.                          Decatur, Ill.  
 B.S. (University of Illinois) 1916  
 1 Agr-2833 Channing way                  Bkly 8338

Wright, Lorena Martha                      Berkeley  
 A.B. 1916  
 1 LS-2530 Etna st                              Bkly 2243W

Wyllie, Mabel                                  Dinuba  
 A.B. 1916  
 1 LS-1700 Euclid av                          Bkly 1625

Yeatman, Sara Eleanor                          Oakland  
 B.S. (Oregon Agricultural College) 1916  
 1 LS-523 Thirty-first st, O              Pied 2305J

Yocom, Frank Willis                          Pasadena  
 B.S. (South Dakota State College) 1910  
 1 Med-2642 Bancroft way                  Bkly 653

Yocom, Harry Barclay                          Berkeley  
 A.B. (Oberlin College) 1912; M.A. 1916;  
 cand. Ph.D. (zoology)  
 2 LS-2248 Telegraph av                  Bkly 9011

Young, Eva Ruth                                  Willits  
 A.B. 1916  
 1 LS-2702 Virginia st                          Bkly 6789

Young, Jennie                                  Port Costa  
 A.B. 1916  
 1 LS-2429 Channing way                  Bkly 4648

Young, Jessica May                              St. Louis, Mo.  
 A.B. (Washington University) 1914;  
 M.S. 1915; cand. Ph.D. (astronomy);  
 University Fellow in Astronomy  
 3 LS-1364 Scenic av                          Bkly 2099

Young, Leona Esther                          Berkeley  
 B.S. 1915; M.S. 1916  
 2 Chem-2510 Etna st                          Bkly 4729W

*Academic Departments*

Youngberg, Hulda Olivia

Salt Lake City, Utah

A.B. (University of Utah) 1907

1 LS-2400 Haste st

Bkly 4596

Yulich, Max

Fort Bragg

A.B. 1916

<sup>2</sup>1 LS-1920 University av

Bkly 7586

Zelt, Helen Frances

A.B. 1916

<sup>1</sup>1 LS-1730 Grove st

Zinn, Cleo Jack

B.S. 1914

<sup>2</sup>1 LS-Oxford apts**Berkeley****Bkly 3243****Los Angeles**

## 2. UNDERGRADUATE STUDENTS

Abbey, Camille Leonie	Berkeley	Napa
4 LS-2011 Hearst av	Bkly 6627W	
Abercrombie, Donald LeBon	Tulare	
3 Com-2500 College av	Bkly 5941	
Abernathy, Lanna Mary	Santa Barbara	
*1 LS-453 Fifty-ninth st, O		
Abernethy, Raymond Joseph	Oakland	
2 Chem-1824 Castro st, O	Oakd 5411	
Abraham, Arthur William	Los Angeles	
3 CE-2001 Allston way	Bkly 6710	
Abrott, Andrew Lloyd	Danville	
1 LS PreL-Danville	Danville 24	
Abshire, Donald Laughlin	Yreka	
3 LS PreL-2522 Ridge rd	Bkly 5950	
Ackerman, Zoe	Oakland	
2 LS-1709 Myrtle st, O	Oakd 2806	
Adair, Samuel	Los Angeles	
*5 LS-2521 Hearst av	Bkly 708	
Adams, Frederick Joseph	Santa Rosa	
1 LS-2225 College av	Bkly 7035	
Adams, Glenn Allan	Santa Cruz	
*Min-2214 Union st	Bkly 2483	
*Adams, Harry Vaughn	Alameda	
4 LS PreA-2601 Durant av	Bkly 28	
Adams, Henry Fayette	Alameda	
*1 Mec-1219 Walnut st, A		
Adams, Josiah Knowles	Piedmont	
*2s LS-2251 College av	Bkly 9107	
Adams, Leland Chester	San Jose	
1 LS PreL-269 Hanover av, O	Mer 4145	
Adams, Mary Knowles	Piedmont	
1 LS-2725 Channing way	Bkly 7950	
Adams, Mildred	Alameda	
4 LS (H Econ)-2641 Regent st		
	Bkly 2579J	
Adams, Pauline	Oakland	
4 LS-634 Oakland av, O	Pied 2534	
Adams, Richard Berry	Portland, Ore.	
2 Chem-1780 La Loma av	Bkly 8716	
Adams, Robert McKee	Oakland	
2 LS PreL-584 Forty-second st, O		
	Pied 1868	
Adams, Winola	Los Angeles	
4 LS-2417 LeConte av	Bkly 5650	
Adams, Maud	Berkeley	
3s LS-1709 Madera st	Bkly 6446J	
Adler, Herbert Charles	Los Angeles	
3 Com-Glengary apts	Bkly 9183	
Adrianne, Evelyn Chamberlain	Napa	
*3 LS-2820 Piedmont av		
Adrianne, George Newton	Napa	
2 LS-2425 Bancroft way	Bkly 1748	
Adrianne, John Willis		
4 Agr-University Farm, Davis		
Aguirre, Naomi Blanche	Berkeley	
1 LS-2002 Yolo av	Bkly 7586	
Ahern, Margaret Mary	San Francisco	
2 LS-129 Commonwealth av, S F		
	Pac 1206	
Ahern, Thomas Paul	San Francisco	
3 CE-129 Commonwealth av, S F		
	Pac 1206	
Ahl, Frances Norene	Santa Rosa	
4 LS (H Hist)-2713 Haste st	Bkly 2148	
Ahlem, Clarence	Turlock	
*2 Mec-2226 Chapel st	Bkly 879	
Ahlem, Mildred Melvina	Turlock	
1 LS-2428 Channing way	Bkly 6408	
Ahnstedt, Esther Eleanor	Turlock	
2 LS-2223 1/2 Chapel st		
Aicher, Frederick, Jr.	Harvey, Ill.	
2 Mec-2501 Ridge rd	Bkly 1385	
Aicher, Gertrude Catherine	Berkeley	
*1 LS-2612 Haste st	Bkly 2526J	
Aicher, John William Hilary	Berkeley	
*1 Min-2612 Haste st	Bkly 2526J	
Aikin, Edna Kathryn	Oakland	
*8 LS-1125 Hollywood av, O	Mer 3277	
Aitchison, Clyde Stanley	Portland, Ore.	
*1 Mec-2614 Dwight way		
Aitken, Douglas Carryl	Mt. Hamilton	
1 LS-1711 Euclid av	Bkly 9806	
Aitken, Gainor Wilson	San Leandro	
2 LS-460 Breed av, S L	S L 261W	
Aitken, Harry Christie	Berkeley	
2 LS-2318 Parker st		
*Aiton, Arthur Scott	Alameda	
4 LS-1240 Broadway, A	Ala 2016	
Ajajian, Stella	Selma	
1 LS PreL-2229 Chapel st	Bkly 1642	
Akagi, Roy Hidemichi	Alameda	
3 LS (H Hist)-2808 Bank av, A		
	Ala 4164W	
Akin, Dora Lucille	El Paso, Tex.	
*2s LS-2781 Prince st		
Akin, Laura Lillian	Portland, Ore.	
3 LS-1700 Euclid av	Bkly 1625	
Albee, Camille	Weed	
2 LS-2401 Durant av	Bkly 6681	
Albee, Ralph	Weed	
3 Agr-2332 College av	Bkly 1134	
Albert, Edmond Kephart	Los Angeles	
1 Mec-2528 Ridge rd	Bkly 3277	

Albert, Edward	Alameda	Alter, Ada M.	Berkeley
4s LS-1419 Lincoln av, A	Ala 2671	*1 LS-1408 Henry st	Bkly 1192J
Albert, Elsa	San Francisco	Alter, Joseph Copley	Berkeley
4 LS-1765 Waller st, S F	Park 3263	1 LS-2514A Virginia st	Bkly 7844J
*Albertson, George Howard	Denver, Colo.	Altman, Crescentia May	Oakland
4 Com-2520 Durant av	Bkly 1675	1 LS-2121 Twenty-first av, O	Mer 2759
Albertson, Henry	San Francisco	Altshuler, Henry Irving	San Francisco
4s LS-2218 Union st		2 Min-3370 Clay st, S F	Fldr 562
Alburtus, Margaret Dorothy	Santa Monica	Altshuler, Saul	Jaffa, Palestine
1 LS-1564 LeRoy av	Bkly 8384J	*1 Agr-2516 Bancroft way	
Alexander, Ben	Wausau, Wis.	Alvarez, Felice Esther	Berkeley
4 LS-2251 College av	Bkly 9107	*1 LS-1639 Oxford st	Bkly 2949J
Alexander, June Isabel	Berkeley	Alverson, Brinkley Wallace	San Francisco
1 LS-2213 Atherton st	Bkly 9868	*1 LS-2031 Baker st, S F	Fldr 4734
Alford, Ray M.	Lemon Grove	Alvord, Arthur Donald	Cedarville
*2 LS PreI-2625 Hearst av	Bkly 7614	*2 Agr-1543 Harrison st, O	Ldsd 784
Alger, Irving G.	Berkeley	Amagata, Yajuro	Watsonville
4 LS-2517 College av	Bkly 436J	3 LS (H Math)-151 The Uplands	
Alger, Josephine Eddy	Berkeley		Bkly 839
*4 LS-2517 College av	Bkly 436J	Ambrose, Agnes Dolores	Richmond
Alison, William Henry, Jr.	San Francisco	3 LS-696 Twenty-fourth st, O	Oakd 2988
1 Agr-2606 Bancroft way	Bkly 2617	Ames, Ethel Florence	Berkeley
Aljin, George Washington	Fresno	*1 LS-2219 Channing way	Bkly 8668W
3 Chem-322 Thirteenth st, O	Oakd 2236	Ames, Rosabelle	Berkeley
Allan, Euphemia Marguerite	Nome, Alaska	4 LS-2219 Channing way	Bkly 8668W
3 LS (H Engl)-2711 Piedmont av		Amshbaugh, Archibald Eli	Newman
	Bkly 1987W	*1 Med-2218 Union st	Bkly 2967
Allan, Helen May	Nome, Alaska	Andersen, Agnes Camille	Spokane, Wn.
2 LS-2711 Piedmont av	Bkly 1987W	*1 LS-2542 Durant av	Bkly 3873
Allan, Margaret McMillan	Monterey	Andersen, Henry Thorvald	Selma
2 LS-2421 LeConte av	Bkly 8062	1 Agr-2201 Bancroft way	
Allen, Emmet Joseph	Oakland	Anderson, Archie Charles	Albion
3s Mec-837 Chestnut st, O		1 Com-2210 Chapel st	
Allen, Ethel Mae	Hayward	Anderson, Arnold Theodore	Kingsburg
2 LS-2526 Hilgard av	Bkly 1441	1 Com-2312 Durant av	Bkly 1842
Allen, Harriet Ozena	Riverside	Anderson, Brita Mathilda	San Francisco
4 LS-2731 Forest av	Bkly 3484W	2 LS-2417 LeConte av	Bkly 5650
Allen, Herbert	Berkeley	Anderson, Clarence	Oakland
3 Agr-University Farm, Davis.		2 Chem-2102 E Sixteenth st, O	
Allen, John Joseph	Oakland	Anderson, Edna	Helena, Mont.
1 LS PreI-1724 Adeline st, O	Oakd 7923	3 LS (H Engl)-2309 Fulton st	
Allen, Martha Lucile	Pasadena		Bkly 3459W
*2 LS-2700 College av	Bkly 1442J	Anderson, Edward Christian	Oakland
Allen, Mary Elizabeth	Pasadena	*21 Mec-440 Hanover av, O	
4 LS-2417 LeConte av	Bkly 5650	Anderson, Ernest C.	Oroville
Allen, Mary Ware	Bonita	1 LS PreI-2200 Piedmont av	Bkly 6760
2 LS PreM-2723 Durant av	Bkly 9531	Anderson, Frederick William	Albion
Allen, Robert Emmet	Bangor	3 LS-2210 Chapel st	
3 LS PreM-2333 College av	Bkly 1722	Anderson, George Horace	Coalinga
Allen, Will Gray	Laton	1 Mec-2304 Telegraph av	Bkly 2348
*1 Mec-Stiles Hall	Bkly 481	Anderson, Helen	Winters
Allessaht, William John	Berkeley	*3 LS-1200 Shattuck av	Bkly 6536J
*2 LS-2148 Center st	Bkly 276	Anderson, Henry Marion	Riverside
Allin, George Donald	Pasadena	2 LS-2201 Bancroft way	
4 Agr-2427 Channing way		Anderson, Joseph Emanuel	Turlock
Allsopp, Everard Carlton	San Francisco	*3 LS-1404 Post st, S F	
1 LS-3425 Sacramento st, S F	West 123	Anderson, Mary	Santa Barbara
Almqvist, Milton Leroy	Atwater	*1 LS PreM-2539 Durant av	
3 Mec-2210 Chapel st	Bkly 6037J	Anderson, Ruth	Santa Rosa
Alper, Judah	San Francisco	2 LS-2723 Channing way	Bkly 9317
*3s LS-2316 Allston way	Bkly 7246		

- Anderson, Sydney Alden Pomona  
1 Agr-2438 Durant av Bkly 4416J  
Anderson, Walter Nels San Diego  
4 LS and 1 Juris-2248 Telegraph av Bkly 9011  
Andrade, Anton Bennet Hayward  
4 LS PreL-1639 Euclid av  
Andres, Stella Clare Los Angeles  
4 LS-2429 Channing way Bkly 4648  
Andrews, Chester Lawrence San Francisco  
21s LS PreL-427 Irving st, S F Sst 1413  
Andrews, Edmund Ward Jackson  
4 LS-2405 Telegraph av Bkly 5414W  
Andrews, Leedom Boyd San Francisco  
1 LS PreL-2216 Channing way Bkly 5631  
Andrews, Lillian Grayce Petaluma  
1 LS-2328 Bowditch st Bkly 6201J  
Andrews, Walter Edward Stockton  
4 LS PreL-2101 Telegraph av, O Lkad 1700  
Andrews, Zula Red Bluff  
8 LS (H Hist)-2134 Ward st Bkly 6065W  
Anewalt, Henry Philip Los Angeles  
2 Agr-2610 Durant av Bkly 7804  
Angell, Norman Horatio Soquel  
1 Mec-2134 Parker st Bkly 3182W  
Angell, Philip Harold Richmond  
2 Com PreL-2218 Dana st Bkly 3267  
Angelou, Alexander Nicolaos Monastir, Macedonia  
4 LS-2223 Atherton st Bkly 6680  
Angus, Marv Stewart San Francisco  
11s LS-2522 Union st, S F  
Ankeramit, Hendrik Jan Deventer, Holland  
23 Chem-1730 La Loma av Bkly 8716  
Annett, John Platt Stockton  
13 LS-2021 Channing way Bkly 663  
Annis, Ruth Laura Berkeley  
1 LS-1147 Shattuck av Bkly 626  
Appledorn, Harry Henry Berkeley  
8 LS PreM-1450 Sixth st Bkly 6419W  
Appleford, Carl Williams Los Angeles  
3 CE-2405 Fulton st Bkly 8885J  
Applegate, Ada Maie Pasadena  
1 LS-2410 Dana st Bkly 7836J  
Applegate, Jean Margaret Klamath Falls, Ore.  
3 LS-2519 Hillegass av Bkly 477  
Appling, Hazel Irene Madera  
1 LS-1346 El Centro av, O Mer 2949  
Apps, Chilton Clair Oakland  
1s Com-432 Pacific av, P Pied 7126  
Apte, Benjamin Ethan San Francisco  
11 CE-2633 Howard st, S F Man 4092  
Arata, Helen Ernestine San Luis Obispo  
8 LS-2328 Bowditch st Bkly 6201J  
Arbuckle, Ida Nellie Gridlev  
23 LS-1900 Bonita av Bkly 994W  
Archibald, Robert James Wheeling, W. Va.  
4 Agr-1730 La Loma av Bkly 8716  
Arey, Henry Elling Berkeley  
2 Com-92 Hillcrest rd Bkly 7287  
Argall, Frank George San Jose  
12 LS-2218 Union st  
Arlett, Grace Hollands Oakland  
1 LS-6165 Chabot rd, O Pied 7941  
Armor, Vida Virginia Berkeley  
13 LS-1601 Oxford st Bkly 4681W  
Armstrong, Donald Venice  
1 Com-2521 Hearst av Bkly 708  
Armstrong, James Irvine Salinas  
3 LS (H Econ)-2416 College av Bkly 8476J  
Armstrong, Marjorie Fowler  
2 LS-2927 Regent st Bkly 4888W  
Armstrong, Ralph Sheldon Hayward  
2 Agr-2605 Durant av Bkly 552  
Arnheim, Roy Louis San Francisco  
2 Agr-766 Sutter st, S F Frkn 7866  
Arnold, Alta Evelyn Loyalton  
3 LS-Kittredge apts Bkly 6868W  
Arnold, Elwyn A. Oakland  
4 LS and 1 Juris-2324 Thirteenth av, O Mer 2857  
Arnold, Hubert Rogers San Francisco  
3 LS PreM-2606 Bancroft way Bkly 2617  
Arnot, Ralph Wesley Placerville  
2 LS PreL-2646 Dwight way Bkly 4104  
Aronson, Katherine Isabel San Francisco  
1 LS-1328 Hyde st, S F Frkn 7088  
Ashbv, Laura Los Angeles  
3 LS (H French)-2627 Hearst av Bkly 4006  
Ashbv, Thomas Reese Bowen Sacramento  
2 LS PreL-2538 Durant av Bkly 8361W  
Ashe, David Farragut San Francisco  
1 Agr-2610 Durant av Bkly 7804  
Ashe, Gaston Bolado San Francisco  
4 Mec-2318 Telegraph av Bkly 5964  
Ashkenaze, Walter Oakland  
11s Chem-2212 Bancroft way Bkly 1431W  
Ashlev, Catherine Margaret Honolulu, T. H.  
3 LS-1533 Walnut st Bkly 6849J  
Aster, Alvin Klintworth Alameda  
2 LS-910 Chestnut st, A Ala 2219J  
Atcheson, John George Oakland  
2 LS PreL-2601 Channing way Bkly 5904  
Atchison, Edward McKean Berkeley  
3 Mec-2502 Ashbv av Bkly 7511W  
Atherton, Carolyn Eloise Novato  
2 LS-2315 Durant av Bkly 105W  
Atherton, George Weller Stockton  
14 Com-2601 Durant av Bkly 23  
Atkinson, Rachel Asusa  
2 LS-1541 Hawthorne ter Bkly 8883

- \*Atkinson, Walter Victor San Jose  
4 Com-2332 College av Bkly 6689  
Aujla, Jawant Singh Oakland  
\*1 LS PreM-2001 Allston way Bkly 6710  
Austin, Charles Lloyd Berkeley  
1 Agr-2730 Belrose av Bkly 8761  
Averill, Beatrice Berkeley  
4 LS-2417 Carlton st Bkly 2725  
Averill, Ruth Ella Berkeley  
2 LS PreL-2417 Carlton st Bkly 2725  
Avery, Frances Jane Boise, Idaho  
2s LS-2246 Atherton st Bkly 5479W  
Avery, Jack Little Berkeley  
1s Com-1543 Scenic av Bkly 3232W  
Avery, Marion Oakland  
3 LS-1715 LeRoy av Bkly 2351  
Avison, Jennie Ellis Greeley, Colo.  
1 LS-2531 Ridge rd Bkly 6485  
Ayer, Ella Frances San Francisco  
3 LS-2519 Hillegass av Bkly 477  
Ayer, Marion Bushnell San Francisco  
\*1 LS-3740 Seventeenth st, S F  
Mrkt 8738  
Aylsworth, Bertha Marie Portland, Ore.  
1 LS PreL-2836 Derby st Bkly 6959W  
\*Aylward, Fred Nelson Fort Bragg  
5 LS-2626 Channing way  
Aznakian, Vahan K. Ripon, Wis.  
1 Mec-2217 Telegraph av  
Babb, Addie Viola Napa  
3 LS-2400 Piedmont av Bkly 5224  
Babbitt, Miriam Neil Haynes Berkeley  
4 Com-2406 Dana st Bkly 7718  
Babcock, Barbara Denver, Colo.  
\*1 LS-Glengarry apts Bkly 4054  
Babcock, Edward Saunders, Jr. Riverside  
1 LS PreM-2425 Bancroft way  
Bkly 1743  
Babcock, Willard Gail Riverside  
3 Agr-2425 Bancroft way Bkly 1743  
Bacheller, Paul Fuller New York, N. Y.  
3 LS-2251 College av Bkly 9107  
Bachman, Marion Berkeley  
4 LS (H Hist)-2721 Haste st Bkly 8800  
Bacon, Frances Gertrude Medford, Ore.  
\*1 LS PreA-2525 College av Bkly 5596W  
Bacon, Ruth Hale Oakland  
\*1 LS-925 Fallon st, O Lkcd 4232  
Baer, Helen Trexler Berkeley  
4 LS-1643 Walnut st Bkly 6180  
Bagley, Elva Anne Buhl, Idaho  
\*1 LS-2542 Durant av Bkly 3873  
Bagley, Louis Alexander Berkeley  
\*1 Com-2201 Blake st  
Bagley, Ralph Frederick Los Angeles  
3 LS PreL-2201 Blake st  
Bailey, Crystal Estella Susanville  
4 LS-2520 Durant av Bkly 1675  
Bailey, Elba Norse Los Angeles  
3 Agr-University Farm, Davis  
Bailey, Lloyd Elwin Salinas  
1 Mec-2212A Union st Bkly 7820W  
Bailey, Marion Gertrude San Diego  
1 LS-2441 Haste st Bkly 6847J  
Bailey, Myrtle Theresa San Pablo  
4 LS (H Ger)-696 Twenty-fourth st, O  
Oakd 2938  
\*Bailey, Ruth Custer, S. D.  
4 LS-5707 Oak Grove av, O Berkeley  
Baillie, Victoria Worley Bkly 9087W  
2 LS-2228 Chapel st  
Baird, John Newton San Francisco  
3 LS PreL-2332 College av Bkly 6689  
Baird, Mabel Anne Alameda  
3 LS (H Engl)-1013 Pacific av, A  
Ala 870  
Baker, Alwyn John Redding  
2 LS-1151 Oxford st Bkly 6958J  
\*Baker, George W., Jr. Piedmont  
4 LS-2251 College av Bkly 9107  
Baker, Guy E. Long Beach  
\*4 LS-2231 Durant av  
Baker, Helen Nordhoff  
2 LS-2710 Channing way Bkly 9520  
Baker, Hiram Rufus Redding  
2 LS PreL-1711 Euclid av Bkly 9306  
Baker, Howard Marcellus Eureka  
1 LS-2532 Bancroft way Bkly 3013  
Baker, Marjorie Mae Winters  
3 LS-2713 Haste st Bkly 2148  
Baker, Mary Lois South Pasadena  
4 LS-3120 Lewiston av Pied 2509J  
Baker, Portia Pearl Portland, Ore.  
3 LS (H Engl)-2805 Bancroft way  
Bkly 7461  
Baker, Robert Francis Alameda  
1 Mec-2610 Durant av Bkly 7804  
Baker, Royce Jacob Ione  
\*1 Agr-2200 Atherton st Bkly 4203  
Bakewell, George Gale Riverside  
4 Mec-Oxford apts Bkly 9330J  
Balaam, Edwin Carnall Exeter  
1 Agr-2647 Durant av Bkly 102  
Balch, Emma Louise Coronado  
3 LS-2629 Haste st Bkly 3287  
Baldwin, Howard M. Gilroy  
3 Com-9 Canyon rd Bkly 2893  
Baldwin, Lloyd Thomas San Francisco  
1 Agr-160 Liberty st, S F  
Baldwin, Orville Dwight Berkeley  
\*1 CE-2522 Hillegass av Bkly 7400J  
Baldwin, Virginia Armstrong Los Angeles  
3 LS-2710 Channing way Bkly 9520  
Ball, Arvilla Santa Ana  
2 LS-2508 Haste st Bkly 2075  
Ball, John Dryer Santa Ana  
3 LS PreM-2647 Durant av Bkly 102  
Ball, Wayne Kraemer Los Angeles  
4 Agr-1711 Euclid av Bkly 9306  
Ballantine, John Knox Los Angeles  
4 LS PreA-2425 LeConte av Bkly 4334



Ballard, Adele Jeanette	Oakland	Barnes, Jesse Wright	Mobile, Ala.
2 LS-1519 Twelfth av, O	Mer 5178	<sup>14</sup> LS-2600 Bancroft way	Bkly 6819
Ballard, Helen Mabry	Creston	Barnes, Mary Alice	Santa Barbara
1s LS-2408 Telegraph av	Bkly 3608	4 LS-1619A Scenic av	Bkly 1700J
Ballou, Frederick Herbert	Tempe, Ariz.	Barnes, Ruth Lillian	Long Beach
4 LS-2223 Chapel st	Bkly 5763	4 LS-2400 Piedmont av	Bkly 5224
Ballou, Fremont Osbert	Los Angeles	Barnes, Wilson Brownlo	San Francisco
2 Agr-2237 Durant av		2 Agr-2502 Bancroft way	Bkly 1848
Balster, Dorothea Seward	Durango, Colo.	Barnett, Helen Maine	San Francisco
<sup>13</sup> LS-2510 Buena Vista av	Bkly 2890W	2 LS-2417 LeConte av	Bkly 5650
*Bangs, Gertrude van Dyke	Oakland	Barnett, Peter Demare	Calexico
4 LS-132 Ninth st, O	Oakd 4691	1 Com-2222 Bancroft way	Bkly 6475
Bangs, Jean Murray	Pasadena	Barney, Marie Richmond	Anderson
2 LS-2250 Prospect st	Bkly 1784W	4 LS-2520 Durant av	Bkly 1675
Bangs, Katherine van Dyke	Oakland	Barnhise, Laura Dean	Hollister
4 LS (H Philos)-132 Ninth st, O	Oakd 4691	1 LS-2542 Durant av	Bkly 3873
Banker, Irving Halsey	Berkeley	Barnum, Clyde C.	Medford, Ore.
4 LS-2218 Dwight way	Bkly 7750J	3 Agr-2315 Durant av	Bkly 105W
Banks, Flossie	Ukiah	Barnum, Gladys Charity	Oakland
4 LS (H Engl)-1736 Oxford st	Bkly 7247	1 LS-408 Hudson st, O	Pied 3444W
Banks, Lawrance Jerome	Ukiah	Baronidis, Beatrice Blessing	San Francisco
3 Agr-2632 Durant av	Bkly 5137	<sup>11</sup> LS-1512 Masonic av, S F	Mrkt 8116
Banton, Eva Eulalie	Sacramento	Barr, Helen Alice	Los Angeles
2 LS-2614 Telegraph av	Bkly 6911W	4 LS (H Latin)-Oxford apts	Bkly 9332W
Baraker, Abraham Elev	Kamenetz-Podolsk, Russia	Barrette, Louis Charles	Placerville
<sup>21</sup> Mec-2201 Ellsworth st		1 LS PreM-3823 Clark st, O	
Baraker, Asril Hiovich	Kamenetz-Podolsk, Russia	Barrow, Will Gustin	Berkeley
<sup>22</sup> Mec-2217 Fulton st		3 Com-2311 Bowditch st	Bkly 7037W
Barbara, Sister Marv	Oakland	Barrows, Anna Frances	Berkeley
4 LS-2054 Webster st, O	Oakd 107	4 LS (H Pol Sci)-2600 Etna st	Bkly 7229
Barber, Marian Louise	Berkeley	Barrows, Ella Cole	Berkeley
<sup>12</sup> LS-1716 Hearst av		2 LS-2600 Etna st	Bkly 7229
Barclay, Lenore	Los Angeles	Barrows, Stephen Sears	Berkeley
1 LS-2710 Channing way	Bkly 9520	4 LS-1726 Euclid av	Bkly 6706
Bardwell, Dwight Cooley	Salt Lake City, Utah	Barry, Margaret Mercedes	Oakland
2 Chem-2124 Kittridge st	Bkly 1229J	<sup>14</sup> LS-2524 LeConte av	Bkly 867W
Barkelaw, Leslie Verne	Fresno	Barry, Ruth Dewing	Berkeley
2 Agr-2529 College av	Bkly 7875W	2 LS-2224 Prince st	Bkly 4112
Barker, Carroll Kendall	Portland, Ore.	Barstow, Eunice Marie	Vallejo
1 Com-2345 College av	Bkly 63	2 LS-2732 Channing way	Bkly 9317
Barker, Frederick Lewis	San Francisco	Barter, John Lewis	Arcata
2 LS PreL-4609 Lincoln way, S F	Snat 1882	2 Agr-2701 Hearst av	Bkly 2421
Barker, Hal	Oakland	Barth, Martha Alvina	San Francisco
3 LS PreL-2318 Telegraph av	Bkly 5964	2 LS-2334 Bowditch st	Bkly 1358W
Barkis, Henry Bruce, Jr.	Lodi	Barthe, Baptiste	Livermore
4 Min-2333 College av	Bkly 1722	4 Com-2605 Durant av	Bkly 552
Barlow, Laura Louisa	Sebastopol	Barthel, Walter Herman	Belmont
1 LS-2736 Haste st	Bkly 8680	4 Min-2529 Hearst av	Bkly 40
Barlow, William Roberts	Ventura	Bartholomew, Richard	Denver, Colo.
<sup>14</sup> LS PreL-2521 Hearst av	Bkly 708	4 Agr-2500 Bancroft way	Bkly 1848
Barnard, Eleanor	Berkeley	Bartlett, Alexander George	Fresno
1 LS-2611 Etna st	Bkly 4584	1 LS-2001 Allston way	Bkly 6710
Barnard, Mary C.	Niles	Bartlett, Donald Salisbury	Lewiston, Idaho
<sup>12</sup> LS-Niles	Niles 11J	2 LS-2610 Durant av	Bkly 7804
		Bartlett, Grace Frances	Berkeley
		1 LS-2412 Stuart st	
		Bartlett, Nellie Amanda	Laton
		1 LS-2311 Bancroft way	Bkly 214

Barton, Amelia Page	Altadena	Bayley, Laurence True	Berkeley
1s LS-2624 Virginia st	Bkly 3668	3 LS (H Engl)-1528 McGee av	Bkly 8248
Barton, Leo Harrison	Bishop	Bayly, Charles Houghton	Los Angeles
1 Agr-2634 Bancroft way	Bkly 6744	4 LS-1815 Highland pl	Bkly 1682
Baruch, Albert Leonard	San Francisco	Bazzuro, Anna Rosemary	San Francisco
21 LS-2318 Telegraph av	Bkly 5964	11 LS-1456 1/2 Eighth av, S F	
Basford, Bruce Cartwright	San Francisco	Beal, Miriam Anna	Portland, Ore.
4 LS PreL-2646 Dwight way	Bkly 4104	2 LS-36 Moss av, O	Pied 2001
Baskin, Jane Feild	San Antonio, Tex.	Beall, Elizabeth	Oakland
2 LS-2508 Haste st	Bkl - 2075	2 LS-307 Twenty-first st, O	Lind 2411
Bayse, Emilie Elizabeth	Berkeley	Bean, Gladys Stewart	Campbell
3 LS-1431 Oxford st	Bkly 1917J	3 LS-2428 Channing way	Bkly 6408
Bayse, Gladys Dorothy	Berkeley	Bean, Howard Stewart	Campbell
8 LS-1431 Oxford st	Bkly 1917J	5 Mec-2334 Durant av	Bkly 3485
Batchelder, Lincoln Stevenson		Bean, Mary Isabel	San Jose
	San Francisco	4 LS-2627 Hearst av	Bkly 4009
1 LS-2403 Webster st, S F	Flmr 4275	Beard, Florence Luella	Sacramento
Bateman, Phyllis Marian	San Francisco	2 LS-2400 Durant av	Bkly 7954
3 LS-2215 Howard st, S F	Man 2453	Beardalee, Beatrice	Sacramento
Bates, Charles Edward Harold	Alameda	13 LS-1740 Walnut st	Bkly 7392
3 LS PreM-727 Paru st, A	Ala 95	Beasley, Angenetta Idell	Cloverdale
Bates, Henry Jocelyn	Alameda	4 LS (H Draw)-2400 Piedmont av	Bkly 5224
1 Agr-2607 Hearst av	Bkly 5913	Beatie, Margaret Berkeley	Sausalito
Bates, Phyllis Leah	Tuolumne	1 LS-1700 Euclid av	Bkly 1625
3 LS-1634 Walnut st	Bkly 1780W	*Beatr, Earl Wilber	Chico
Bates, Stanley Pickett	Long Beach	4 LS-2228 Dana st	Bkly 1053
13 Mec-2215 Telegraph av	Bkly 5366	Beatv, William Henry	Piwaco, Wash.
Batterman, Walter Stoddard	Berkeley	3 Mec-2107 Dwight way	Bkly 5976W
3 Agr-2401 Ellsworth st		Beaughan, Lucille DeWitt	Dunsmuir
Baucum, Alice Irene	Portland, Ore.	2 LS-2508 Haste st	Bkly 2075
3 LS-2702 Virginia st	Bkly 6789	Beaumont, Paul Graves	Oakland
Bauer, Lloyd Chester	Pasadena	11 Agr-2016 Forty-sixth av, O	Frdl 746J
12 Agr-2625 Hearst av	Bkly 7614	Beck, Anne Louise	Ferdale
Bauer, Roy Maurice	Napa	8 LS (H Geog)-1636 Josephine st	Bkly 3443W
1 Chem-2425 Bancroft way	Bkly 1743	Beck, Elmer Jensen	Watsonville
Baugh, Max C.	Corning	1 Com-2601 Channing way	Bkly 5904
2 LS-2626 Durant av	Bkly 1289	Beck, Fred Adolph	Chico
Baughman, Imo Pearl	Los Angeles	2 LS-2721 Channing way	Bkly 1577
3 Chem-2630 Bancroft way	Bkly 8469W	Beck, Joy Catherine	Chick
Baughman, Lorita Marie	Seattle, Wn.	2 LS-2416 Channing way	Bkly 3007J
2 LS-2530 Hilgard av	Bkly 3531W	Beck, Margaret Dorothy	Berkeley
Baughman, Pearl C.	Seattle, Wn.	1 LS-1636 Josephine st	Bkly 3443W
4 LS-2530 Hilgard av	Bkly 3531W	Becker, Alvin Gustav	Pasadena
Baum, Alma	Piedmont	3 Com-2701 Hearst av	Bkly 2421
13s LS-117 Sheridan av, P	Pied 4584	Becker, Emma Madeline	Berkeley
Baum, Loretta	San Francisco	1 LS-2532 Ridge rd	Bkly 5970
4 LS (H Engl)-456 Willow av, S F		Beckley, Lella Antoinette	Sacramento
	West 4119	3 LS-2421 LeConte av	Bkly 3063
Baumunk, Stella Pearl	Modesto	Beckwith, Florence P.	Modesto
3 LS-2542 Durant av	Bkly 3873	11 LS-2400 Haste st	Bkly 4596
Baxter, Frank Edwin	Salt Lake City, Utah	Beebe, Clarence Walter	Berkeley
3 CE-1936 Parker st	Bkly 3707W	4 Chem (H)-177 Parnassus av, S F	
Baxter, James B.	Claremont	Beecher, Leland Elliot	Stockton
13 Com-2411 Durant av	Bkly 474	1s Agr-1408 Scenic av	
Bayer, Jerome Haas	San Francisco	Beede, Frank Rattan	Antisch
2 LS PreL-1528 Sutter st, S F		2 Mec-1730 La Loma av	Bkly 8716
	West 1528	Beekhuis, Grace Houdijn	Hanford
Bayley, Freda Cadell	Oakland	2 LS-2435 Hilgard av	Bkly 6406
4 LS-428 Hanover av, O	Mer 1932		

# Undergraduate Students

83

Beekhuis, Sophie Frederique Hanford  
 3 LS (H Hshld Art)—2485 Hilgard av Bkly 6406  
 Beeman, Gladys Evelyn Tuolumne  
 3 LS-2765 Prince at Bkly 6561J  
 Beeson, Laverne Brooks San Francisco  
 1 LS PreM-2216 Bancroft way  
 Begun, Hurley Berkeley  
 2s LS—Pacific Unitarian School Bkly 1141  
 Behneman, Harold Mayo F. Oakland  
 1 LS PreM-421 Perkins st, O Lkad 1152  
 Behr, Otho Moring Pasadena  
 2 Chem-2804 Piedmont av Bkly 1461W  
 Behrens, Richard Herman Los Angeles  
 2 Chem-2246 Fulton at Bkly 9028  
 Bell, Alyn Braden San Bernardino  
 1 Mec-2427 Durant av  
 Bell, Charles Robert Kinsley, Kans.  
 4 Agr-2634 Bancroft way Bkly 6744  
 Bell, Frank Couver Oakland  
 4 Mec-2610 Durant av Bkly 7804  
 Bell, Hazel Roberta San Diego  
 3 LS-2529 Hillegass av Bkly 5075J  
 Bell, Leland Morrison Sacramento  
 4 Agr-University Farm, Davis  
 Bell, Mary Isabel Sacramento  
 3 Com-2827 Bancroft way Bkly 6816  
 Bell, Russell White San Francisco  
 3 LS-2601 Channing way Bkly 5904  
 Bellanca, Andrew San Francisco  
 1 LS PreL-1274 Thirty-seventh av. S F  
 Snt 2763  
 Belshaw, Gwin Riverside  
 2 Mec-2428 College av Bkly 4748  
 Benas, Benjamin San Francisco  
 1 CE-654 Cole st, S F Park 2885  
 Bence, Ruth Greenfield  
 2 LS-2731 Dwight way Bkly 6865W  
 \*Bender, Leo Winfield Oakland  
 4 Com-2206 Atherton st  
 Bender, William Lee San Francisco  
 3 LS PreM-2646 Dwight way Bkly 4104  
 Benedek, Eleanor Berkeley  
 3 LS-2505 Parker at Bkly 3506W  
 Benedict, Eva Gael Lodi  
 1 LS-1749 Walnut Bkly 9399W  
 Benedict, Madeline Macy Pleasanton  
 2 LS-2725 Channing way Bkly 7950  
 Benjamin, Julia Berkeley  
 1 LS-2023 Channing way Bkly 7556  
 Bennett, Howard Edwin San Diego  
 3 Min-2614 Dwight way Bkly 1276  
 Bennett, Irma Leone Berkeley  
 2 LS-2520 Ridge rd Bkly 4310W  
 Bennett, Jesse Lee Caliente  
 3 Min-2400 Haste at Bkly 4596  
 Benson, Francis Schaar Beardstown, Ill.  
 1 Mec-2234 Haste at Bkly 149W  
 Benson, Olive Salt Lake City, Utah  
 3 LS-Cambridge apta Bkly 9082W

Benson, Robert Gordon Topaz  
 2s LS-2531 Channing way Bkly 7068W  
 Benson, Thomas Mardenbro San Francisco  
 3 Mec-2330 Telegraph av Bkly 4429  
 Bent, Avery Ballard South Pasadena  
 3 LS-2632 Durant av  
 Bent, Ensley Miles Healdsburg  
 1 LS PreL-2627 Ridge rd Bkly 2541  
 Benteen, Grace Lillian Winters  
 1 LS-2314 Haste st Bkly 4026  
 Benton, John William Redding  
 4 LS-1711 Euclid av Bkly 9806  
 Benton, Lois Brulyn Reno, Nev.  
 4 LS-1933 Grant st Bkly 7985J  
 Benton, Marion Caroline Pasadena  
 1 LS-1733 Bancroft way Bkly 3290  
 Bepler, Alice Charlotte San Francisco  
 2 Com-1373 Third av, S F Snt 1440  
 Bepler, Doris West San Francisco  
 3 LS (H Hist)—1373 Third av, S F  
 Snt 1440  
 Beresford, Harold Kelsey Corning  
 1 Agr-1711 Euclid av Bkly 9306  
 Berg, Edward William Kingsburg  
 4 Agr-2528 Ridge rd Bkly 3277  
 Berg, Frances Louise Berkeley  
 1s LS-2629 Haste at Bkly 3287  
 Bergevin, Alexander Wickersham San Francisco  
 14 Com-2436 Durant av Bkly 6780J  
 Bergfried, Helen Berkeley  
 3 LS (H Ger)—1933 Berryman st  
 Bkly 2829  
 Bergstrom, Reinhold Bernard Turlock  
 1 LS-2506 College av Bkly 4387  
 Bering, Robert Ellis San Francisco  
 4 Agr-University Farm, Davis  
 Berka, Reyna Santa Rosa  
 8 LS-2325 Channing way Bkly 239  
 Berka, Rita Santa Rosa  
 3 LS-2325 Channing way Bkly 239  
 Berlin, Paul Latham Alameda  
 1 Min-1525 Chestnut st, A Ala 1720  
 Berman, Israel Loeb San Francisco  
 1s Agr-373 Shotwell st, S F Park 3496  
 Bernard, Gertrude Blanche Bishop  
 1 LS-2010 Parker at Bkly 6797  
 Bernhardt, Ruth Oakland  
 1 LS-2737 Regent st Bkly 8459J  
 Bernstein, Robert Julian San Francisco  
 3 Com-2520s Ridge rd Bkly 5845  
 Berry, Alethe Berkeley  
 1 LS-2128 Prince st Bkly 1869J  
 Berry, Hortense Louise Oakland  
 3 LS-1420 Jackson st, O Lkad 3110  
 Berry, Leila Baldwin Berkeley  
 4 LS (H Econ)—2700 Benvenue av  
 Bkly 26W  
 Berst, Russell Dolman Portland, Ore.  
 4 Mec-2248 Telegraph av Bkly 9011

- Bertelsen, Martin Juhl Pacific Grove  
 \*2 Mec-2411 Virginia st Bkly 7205W  
 Bertheau, Cesar Jordan San Francisco  
 2 LS-1815 Highland pl Bkly 1682  
 Bertheau, Elise Carolyn San Francisco  
 2 LS-2728 Durant av Bkly 9531  
 Bertholf, Ina Weatherwax Berkeley  
 4 LS (H Engl)-186 Hillcrest rd Bkly 7088  
 Bertolacci, Ricardo Lane Berkeley  
 \*2s Mec-1614 Milvia st Berkeley  
 Berude, Alma Caroline Berkeley  
 2 LS-2000 Yolo av Bkly 6175  
 Berwick, C. Coleman Berkeley  
 4 LS (H Anat) and 1 Med-1935 Hearst av Bkly 3199  
 Beshlitch, Carlotta Oakland  
 4 LS-1222 Fruitvale av, O  
 Best, Cecil Alvin Berkeley  
 \*1 Com-873 Arlington rd Bkly 7347  
 Bethell, William Decatur Redlands  
 \*1 Chem-2531 Channing way Bkly 7086W  
 Betts, George Alfred Los Angeles  
 1 LS PreA-2616 Virginia st Bkly 6716  
 Betty, Marion Patterson Hailey, Idaho  
 \*1 LS-2500 Durant av Bkly 5517W  
 Beveridge, Frances Edwards Los Angeles  
 2 LS-2714 Ridge rd Bkly 9098  
 Bhend, Vera Marie Newman  
 3 LS (H Ger)-2232 Haste st Bkly 1494W  
 Bhosekar, Krishnaji Bombay, India  
 \*1 Chem-General Delivery  
 Bibb, Irma Belle San Francisco  
 2 LS-2461 Jackson st, S F Flmr 694  
 Bicknell, Helen William Berkeley  
 \*1 LS-2960 Hillegass av Bkly 5583W  
 Bicknell, Vera Lorraine Berkeley  
 3 LS-2960 Hillegass av Bkly 5588W  
 Biehl, Albert George Berkeley  
 \*2 LS PreM-2149 Stuart st Bkly 1821W  
 Biersch, Lester Allan Watsonville  
 \*2 LS PreA-2436 Durant av Bkly 6780J  
 Bigelow, Louise Emmeline Berkeley  
 2 LS-2338 Channing way Bkly 6062  
 Bigelow, William Bishop  
 \*3 LS-2600 Durant av Bkly 2598  
 Billingsley, Archibald Stuart Ft. Worth, Texas  
 \*1 Mec-2525 Dwight way Bkly 7693W  
 Billington, Grant Eligh Oakland  
 \*1 Com-439 Oakland av, O Oakd 3912  
 Billa, Edison Deuel Oroville  
 1 LS-2625 Hearst av Bkly 7614  
 Bingaman, William Henry Soledad  
 1 Med-455 Crescent st, O  
 Binkley, John Tonte Los Angeles  
 2 LS-2427 Channing way Bkly 7325  
 Binkley, Mary Elizabeth Palo Alto  
 \*1 LS-1086 Oxford st  
 Binkley, William Campbell Santa Ana  
 4 LS-2641A Channing way  
 Binsacca, Samuel John Soledad  
 1 Agr-2316 Bowditch st Bkly 6504  
 Bird, Ralph Wesley Menoma  
 1 Agr-2316 Bowditch st Bkly 6504  
 Birdsall, Edwin Frisbie Corona  
 2 Agr-2509 Regent st Bkly 3606J  
 Birlew, Paul Egbert Pasadena  
 \*1 Mec-1632 Euclid av Bkly 3581J  
 Bishop, Edna Rosena Oakland  
 1 LS-173 Grand av, O  
 Bishop, Faxon Hulbert Berkeley  
 \*2 Mec-2960 Claremont blvd Bkly 3849W  
 Bishop, Mabelle Ernestine Helena, Mont.  
 1 LS-2236 Durant av Bkly 3492W  
 Bishop, Ruby Isabelle Manchester  
 1 LS-2888 Bush st, S F West 119  
 Bizby, Irene Winifred Los Angeles  
 4 LS-2434 Piedmont av Bkly 6341  
 Bjork, David Knut Stockholm, Sweden  
 2 LS-2435 Grove st  
 \*Black, Edith Virginia Fellows  
 4 LS-2434 Bowditch st Bkly 6334  
 Black, Gardner Pasadena  
 2 LS PreM-2607 Hearst av Bkly 5913  
 Black, Harold Alfred San Francisco  
 4 LS and 1 Juris-2522 Ridge rd Bkly 5950  
 Black, Hollis Mansfield Modesto  
 3 LS-2345 College av Bkly 62  
 Black, Marion Alice San Francisco  
 1 LS-2721 Haste st Bkly 8800  
 Black, Nellie Estella Santa Maria  
 4 LS-2508 Haste st Bkly 2075  
 Blackie, Edwin Earle Lincoln  
 4 CE-2630 Durant av Bkly 157  
 Blackwood, Charles James Vallejo  
 \*1 Mec-1927 Bonita av  
 Blair, Dorothea Berkeley  
 1 LS-2111 The Uplands Bkly 8028J  
 Blair, Earl Murray Placerville  
 3 Agr-2407 S Atherton st Bkly 3330  
 Blair, Frances Louise Friant  
 1 LS-2485 Haste st Bkly 2379W  
 Blair, Henry Clark Pasadena  
 \*1 Agr-2225 Dwight way  
 Blaisdell, Wynn Fred Berkeley  
 \*1 LS PreL-2207 Ellsworth st  
 Blake, Robert Berkeley  
 4 LS (H Hist)-1148 Amador av Bkly 2110  
 Blakelev, Loys Melville Hanford  
 2 Com-927 Oxford st Bkly 6990J  
 Blakelev, Sibyl Dickinson Hanford  
 2 LS-927 Oxford st Bkly 6990J  
 Blanchard, Beatrice Eugenia San Francisco  
 1 LS-2524 LeConte av Bkly 2531  
 Blanchard, Elbridge Houghton Woodhoad  
 2 Com-2701 Hearst av Bkly 2421

# Undergraduate Students

85

Blanchard, Laurence Cleveland	National City	Bolin, John Richard	Stockholm, Sweden
3a Mec-1815 Highland pl	Bkly 1682	<sup>1</sup> 1 LS-1937 Fifteenth st, S F	Mrkt 570
Blank, John Philip	Los Angeles	Bolles, Carolyn Jane	Berkeley
4 Com-3016 Deakin st		2 LS-2782 Channing way	Bkly 9317
Blankinship, Marian Louise	Berkeley	Bolton, Frances Latham	Berkeley
1 LS-2525 Hilgard av	Bkly 6812	2 LS-1526 Scenic av	Bkly 5764
Blayne, Jay Irvin	Berkeley	Bolton, George Ambrose	Benicia
3 LS PreM-2329 Dwight way		<sup>1</sup> 1 Chem-62 Santa Rosa av, S F	
Bleecker, Edward Spann	Fox City, Alaska	Bolze, Edward Henry, Jr.	Sacramento
3a Min-2617 Durant av	Bkly 373	2 LS PreM-2528 Ridge rd	Bkly 3277
Blessing, Carmen Urcell	Oakland	Bomar, Alene Ruth	Ashland, Ore.
2 LS-2929 Benvenue av	Bkly 5048W	2 LS-1922 Eldorado av	Bkly 2896
Blewett, George Albert	Los Angeles	Bond, Dorothy Dorrington	Eureka
<sup>1</sup> 1 LS-2511 Channing way	Bkly 3121J	<sup>1</sup> 2 LS-2718 Haste st	Bkly 2148
Bliss, William Wallace	Berkeley	Bone, Bert Allison	San Diego
4 Mec-2236 Cedar st	Bkly 3593W	4 CE-2605 Durant av	Bkly 552
Blockman, Lazar E.	Berkeley	Bonhus, Amanda Nance	Valley City, N. D.
3 LS-2434 Bowditch st	Bkly 6384	<sup>1</sup> 2 LS-Berkeley Inn	Bkly 6370
Block, Rudolph	New York, N. Y.	Bonhus, Marguerite Cora	Valley City, N. D.
2 Min-2345 College av	Bkly 62	<sup>1</sup> 1 LS-Berkeley Inn	Bkly 6370
Blodgett, Edward Oscar	Oakland	Bonner, Beatrice Louise	Fresno
<sup>1</sup> 5 LS PreA-2726 Stuart st		4 LS (H Engl)-1715 LeRoy av	Bkly 2351
Bois, Owen Robertson	Dinuba	Bonner, Gladys Anita	Pasadena
4 Agr-2646 Dwight way	Bkly 4104	3 LS-2431 Dwight way	Bkly 5587J
Bloom, Esther Leah	San Jose	Bonner, Jane Rose	Berkeley
2 Com-2131 Blake st	Bkly 7795J	<sup>1</sup> 1 LS-3032 Colby st	Bkly 3971J
Bloom, Florence Gail	San Jose	Bonner, Marjorie Mae	Cedarville
1 LS-2131 Blake st	Bkly 7795J	<sup>1</sup> 1 LS-Channing apts	Bkly 6398W
Blume, Helen Mary	Oakland	Bonner, Miriam Young	Azusa
2 LS-986 Sixtieth st, O		2 LS-2435 Hilgard av	Bkly 6406
Blv, Clifford Arthur	Los Angeles	Bonney, Alpha June	Stockton
4 Agr-University Farm, Davis		2 LS-2400 Piedmont av	Bkly 5224
Boag, Robert Mouthrop	Beverly Hills	Bonorden, Allen Rudolf	San Francisco
2 LS PreA-2717 Hearst av	Bkly 5770	2 Mec-102 Arlington st, S F	
Boal, Edgar Dickinson	National City	Bontz, Raymond Karnaghan	Sacramento
2 Agr-2601 Channing way	Bkly 5904	4 LS-2607 Hearst av	Bkly 5913
Boardman, John Gilbert	Lindsay	Boodt, William Allan	Alameda
4 Agr-2382 College av	Bkly 1184	2 Agr-1375 Pearl st, A	
Boelter, Llewellyn M. K.	Latah, Wn.	Booher, Leslie Newton	San Fernando
4 Mec-1815 Parker st		3 Chem-2223 Chapel st	Bkly 2708
Boericke, Charles Caleb	San Francisco	Boole, Fred Warren	San Francisco
2 LS PreM-2440 Jackson st, S F		3 Com-2601 Durant av	Bkly 23
	Filmr 1989	Boone, Alfred Daniel	San Bernardino
Boerner, Louis Fink	Atascadero	1 LS-2228 Dana st	Bkly 1053
3 Mec-2218 Dana st	Bkly 3267	Booth, Franklin Otis	Los Angeles
Boettler, Amalia Caroline	St. Louis, Mo.	4 Agr-University Farm, Davis	
1 LS-2700 College av	Bkly 1442J	Booth, Harold	Paso Robles
Bogle, Marion Meredith	Berkeley	1 LS-2237 Piedmont av	Bkly 8632W
2 LS-Channing apts	Bkly 8428	Booth, John Merrick, Jr.	Tacoma, Wn.
Bohnhoff, Clarence Carl	Los Angeles	3 Agr-University Farm, Davis	
3 Mec-2334 Carlton st	Bkly 2478W	Borchardt, Benjamin	San Francisco
Bohrer, Robert Emerson	Salt Lake City, Utah	3 Mec-2937 Washington st, S F	
1 LS PreL-2141 Berkeley way		Borchardt, Gertrude	San Francisco
	Bkly 4270	4 LS (H Ger)-2937 Washington st, S F	
Boies, Antoinette	Berkeley	Borgeson, Clarence John	Oakland
3 LS-1726 Walnut st	Bkly 5488	2 Chem-905 Willow st, O	Oakd 9371
Boies, Jessie Caroline	Berkeley	Borradaile, Pauline Georgia	Berkeley
2 LS-1726 Walnut st	Bkly 5488	1 LS-1631 Euclid av	Bkly 9035W

- Borradaile, Rebecca Candelaria  
Albuquerque, N. M.  
3 LS-1631 Euclid av Bkly 9035W  
Borum, Gail Hamilton Selma  
1 LS-2229 Chapel st Bkly 1642  
Bowley, Bradford Walsworth Berkeley  
4 LS and 1 Juris-2720 Derby st Bkly 4083  
Bosse, Minerva Alameda  
3 LS-2526 Hilgard av Bkly 1441  
Botek, Joseph Abraham San Francisco  
1s Mec-2235½ Chapel st Bkly 3196J  
Bothe, Dorothea Thirza San Francisco  
2 LS-115 Belvedere st, S F Park 4981  
Botzum, Bert Berkeley  
12s Com-2501 Ridge rd Bkly 1335  
Boucher, David Danville  
1 Agr-2432 Webster st Bkly 3578W  
Bouck, Beulah R. Berkeley  
3 Agr-2240 Telegraph av Bkly 1249  
Boudinot, Truman Everett Venice  
2 Com-1730 La Loma av Bkly 8716  
Bouris, Xenophon Peter Los Angeles  
2 LS-2427 Channing way Bkly 7325  
Bourne, Donald E. Berkeley  
3 Agr-2337 Blake st  
Bourne, Mildred Janet Berkeley  
3 LS-2337 Blake st  
Bourne, Willard Stewart Berkeley  
3 LS-2337 Blake st  
Bouteiller, Blanche Bertha Riverside  
3 LS (H French)-2435 Hilgard av Bkly 6406  
Bouton, Blanche Cole Berkeley  
1 LS-1623 La Loma av  
Bouveroux, Margret Oakland  
4 LS-2732 Channing way Bkly 9817  
Bowden, Ernest John Berkeley  
3s LS-2417A Bancroft way Bkly 6876W  
Bowen, Leon Luther Santa Monica  
1 LS PreM-2521 Channing way Bkly 5831  
Bowen, Marie Emily Coalinga  
1 LS-1736 Oxford st Bkly 7247  
Bowen, William Earl Oakland  
4 Mec-2617 Durant av Bkly 373  
Bower, Eloise Evelyn Long Beach  
12 LS-Sequoia apts  
Bower, Helen Elizabeth Long Beach  
11 LS-Sequoia apts  
Bower, Roy Berkeley  
4 LS (H Engl)-1625 LeRoy av Bkly 5654  
Bowes, Marie Lorraine San Francisco  
3 LS-4315 Twenty-third st, S F Valen 2467  
Bowker, Frank Brewster Calexico  
2 Agr-1730 La Loma av Bkly 8716  
Bowker, Harry Boquist Los Angeles  
2 LS-1730 La Loma av Bkly 8716  
Bowles, Amasa Morse Petaluma  
1 LS PreA-1402 LeRoy av Bkly 3886W  
Bowley, Bennett Hart San Francisco  
4 CE-3946 Nineteenth st, S F Valen 2202  
Bowman, Charles Lee Berkeley  
1 LS PreL-1224 Oxford st Bkly 9381J  
Bowman, George Henry Mendocino  
11 Com-1808½ Ellis st, S F  
Bowman, Harriett Louise San Francisco  
4 LS (H Engl)-2435 Hilgard av Bkly 6406  
Boyd, Bessie Marie Berkeley  
12s LS-1401 Euclid av Bkly 2356  
Boyd, Charles Robert, Jr. Yuba City  
1 Agr-2625 Hearst av Bkly 7614  
Boyd, George Winn San Jose  
2 LS-1711 Euclid av Bkly 9306  
Boyd, Nicholas Kittle San Rafael  
3 Com-2529 Hearst av Bkly 40  
Boyd, Viola Ruth Concord  
12 LS-Concord  
Boyer, Ruth Estella Berkeley  
14 LS-2531 Ridge rd Bkly 6485  
Boyes, Gordon McCausland Oakland  
12 LS PreM-121 Fairview av, P Pied 6005W  
Boyle, Elinor Mary Butte, Mont.  
2 LS-2821 Bancroft way Bkly 1765  
Boyle, Nettie Corinthe Paso Robles  
2 LS-2226½ Chapel st Bkly 879  
Bracewell, Frances Claire San Bernardino  
1 LS-924 Spruce st Bkly 7732W  
Brackett, Grace Thelma San Diego  
2 LS-2021½ Channing way  
Bradbury, Rosamond Jordan Santa Barbara  
4 LS-2709 Channing way Bkly 8528  
Bradford, Arthur Robert Los Angeles  
3 Com-2647 Durant av Bkly 102  
Bradford, Lester Orville Prairie, Ore.  
1 Mec-2445 Channing way  
Bradley, Alice Berkeley  
3 LS-1496 Euclid av Bkly 3090W  
Bradley, Harold Edgar Sacramento  
3 Agr-University Farm, Davis  
Bradley, Lloyd Payne Berkeley  
14 Agr-1494 Euclid av Bkly 3090W  
Bradway, Mabel Los Angeles  
4 LS-2624 Virginia st Bkly 3663  
Braflet, Maud Virginia Salt Lake City, Utah  
2 LS-2400 Piedmont av Bkly 5224  
Brainard, Donetta Channing Santa Barbara  
3 LS-2721 Channing way Bkly 1577  
Brake, Anne Beatrice San Jose  
3 LS-2410 Dana st Bkly 7836W  
Brake, Constance Marie San Jose  
1 LS-2410 Dana st Bkly 7836W  
Brandt, Caroline Matilda San Francisco  
1 LS-3657 Twentieth st, S F Men 1815  
Brangier, Simone Martha Agnew  
4 LS-Treehaven apts Bkly 8841W

Brant, Robert Alston	Los Angeles	Bridge, Barbara	Mill Valley
3 Agr-University Farm, Davis		4 LS-2750 Elmwood av	Bkly 8408W
Braué, Beatrice Emma	Alameda	Brier, Pearl Givens	Turlock
1 LS-1013 Lafayette st, A	Ala 1951	3 LS-2520 Durant av	Bkly 1675
Brauer, Carroll Vern	Berkeley	Briggs, Laura Jane	Berkeley
*1 Agr-2001 Berkeley way		3 LS-1636 Walnut st	Bkly 2717
Brauer, Vivian Eva	Millville	*Brigham, Leslie Hollis	Los Angeles
2 LS-2001 Berkeley way		4 Agr-2601 Channing way	Bkly 5904
Braun, Arpad	Cleveland, Ohio	Briner, Charles	Jackson, Mich.
*1 LS PreM-1915 Berkeley way	Bkly 819	*2 LS PreL-2115 Hearst av	Bkly 5171W
Braun, William Magnus	Napa	Brink, Elsie	San Francisco
1 LS-1707 Euclid av	Bkly 4072	2 LS-170 Eleventh av, S F	Pac 3982
Bray, Idalene Garnett	Calistoga	Brink, Henry Spencer, Jr.	Biggs
3 Com-2309 Haste st	Bkly 5499W	4 Com-2418 College av	Bkly 4440
Bray, John Henry	San Francisco	Brinkmeyer, Marcella Esther	Prescott, Ariz.
*4 Chem-971 Fell st, S F	Mrkt 3642	3 LS (H Ger)-1736 Oxford st	Bkly 7247
Bray, William Donald	Springfield, Mo.	Brissenden, Richard Bosworth	Berkeley
3 LS-1211 College av	Pied 4152J	*2 LS-1704 Walnut st	Bkly 9383
Brayley, Gordon Williard	Brawley	Brite, Everett Raymond	Long Beach
*12 LS-2222 Bancroft way		3 LS-2521 Durant av	Bkly 3437
*Brayton, Helen Lucille	Long Beach	Brite, Ruby	Bakersfield
4 LS-2401 Durant av	Bkly 6681	2 LS-2417 LeConte av	Bkly 5650
Brazelton, Irene	Lincoln, Nebr.	Brodeur, Maude Noland	Berkeley
3 LS-Oxford apts	Bkly 9324W	*1s LS-2617 Virginia st	
Brdofsky, Anita Henrietta	San Francisco	Brodie, Ralph Nathan	Berkeley
3 LS-3244 Harrison st, S F	Man 907	*4 LS-Chem bldg. Campus	
Brecheen, Marie	Commerce, Texas	Brodie, Samuel	Berkeley
2 LS-1910 El Dorado av	Bkly 5663	4 LS-Chem bldg, Campus	
Breck, Samuel Earl	Oakland	Brodekv, Samuel	New York, N. Y.
4 LS-2400 Bancroft way	Bkly 78	4 LS-2209 Union st	Bkly 8956
Breedlove, Margaret Alice	Oakland	Broker, Russell Marcus	Los Angeles
1 LS-175 Santa Rosa av, O	Pied 2172W	*2 LS-Infirmery, Campus.	
Breen, Edna Lucile	Suisun	Broman, Edla Esther	Berkeley
3 LS-2429 Channing way	Bkly 4648	2 LS-1141 Allston way	Bkly 2876J
Brehm, Helen Louise	Berkeley	Bromley, Innis Mansfield	Sonoma
*1 LS-2709 Benvenue av	Bkly 2175J	1 Mec-2605 Durant av	Bkly 552
Brelin, Gus Adolf	San Diego	Bronson, Edward Duerdin	Oakland
3 LS-1711 Euclid av	Bkly 9306	4 LS and 1 Juris-72 Monte Vista av, O	Pied 421
Bremner, Carl St. John	Santa Cruz	Brooke, Helen Elizabeth	Berkeley
*2 Min-2214 Union st	Bkly 2483	3 LS (H Hist)-2423 Woolsey st	
Brennan, Catherine Agnes	Los Angeles		Bkly 9391
*2 LS-1736 Oxford st	Bkly 7247	Brooks, Charles Thomas	Oakland
Breslau, Alfred Fisher	San Francisco	4 Com-2101 Telegraph av, O	Lkad 1700
1 LS PreL-1957 Hayes st, S F		Brooks, Frank Harold	Marysville
	Pac 5723	*2 Agr-2525 Cedar st	Bkly 5278
Breslau, Edna	Berkeley	Brooks, Fred Thomas	Los Angeles
*1s LS-2527 Channing way	Bkly 3121W	3 LS-2400 Bancroft way	Bkly 78
Breslin, Charles Cyril	San Francisco	Brousseau, Henriette	Pasadena
*2 LS-135 Third av, S F	Pac 6044	*1 LS-2627 Hearst av	Bkly 4009
Brett, Edward C. N.	Los Angeles	Brougher, Nell	Oakland
4 LS PreA (H)-2601 Durant av		*1 LS-6145 Harwood av, O	Pied 7688
	Bkly 23	Brown, Albert Lincoln	San Francisco
Brewer, Percy Osborne	San Francisco	2 LS PreM-Glengary apts	Bkly 7759
2 LS PreL-253 Eureka st, S F		Brown, Anne Baker	Stanwood, Wash.
	Man 7226	3 LS-2311 Bancroft way	Bkly 7877
Brewer, Wheaton Hale	Burlingame	Brown, Arthur Merrill, Jr.	Alameda
2 LS-2522 Ridge rd	Bkly 5950	2 LS-2610 Durant av	Bkly 7804
Brewer, William Augustus	Burlingame	Brown, Bradley Belknap	San Francisco
1 LS-2522 Ridge rd	Bkly 5950	3 Mec-2421 Virginia st	Bkly 8249
Brewster, Francis Thoburn	Berkeley		
*4 LS-2400 Dana st	Bkly 2388		
Breyman, Eugene Arthur	San Francisco		
4 LS-2424 Virginia st	Bkly 5249		

- Brown, Clifton S. Berkeley  
3 LS PreL-2617 Cedar st Bkly 2002W  
Brown, Delight La Jolla  
1 LS-2725 Channing way Bkly 7950  
Brown, Edna Louisa Boise, Idaho  
4 LS (H Hist)-2218 Dana st Bkly 3267  
Brown, Florence Frances Redlands  
3 LS-5880 Colby st, O Pied 4429  
Brown, Frances Leslie Petaluma  
4 LS (H Engl)-2821 Bancroft way  
Bkly 1765  
Brown, Fred William Los Angeles  
15 Agr-2330 College av Bkly 9371J  
Brown, Gladys Myrtle Gridley  
1s LS-2429 Channing way Bkly 4648  
Brown, Harold Bakersfield  
2 Mec-1539 Henry st Bkly 5000W  
Brown, Harrison Cabot San Francisco  
1 LS-2411 Durant av Bkly 474  
Brown, Helen Bakersfield  
1 LS-1539 Henry st Bkly 5000W  
Brown, Helen E. Suisun  
3 LS-2712 College av Bkly 6968  
Brown, Ida Louise Oakland  
4 LS-1431 Fortieth av, O Frvl 1453W  
Brown, Ira Franklin Oakland  
22 Agr-2164 Forty-second av, O Frvl 489J  
Brown, John Herbert Los Angeles  
4 LS PreA-1726 Euclid av Bkly 6706  
Brown, John Quincy, Jr. Sacramento  
3 LS PreL-2529 Hearst av Bkly 40  
Brown, Lavinia Hollywood  
3 LS-2710 Channing way Bkly 9520  
Brown, Lawrence Augustus Berkeley  
1 CF-2600 Durant av Bkly 2593  
Brown, Leslie Alameda  
3 LS-2710 Channing way Bkly 9520  
Brown, Lloyd Noble Oakland  
2 Agr-1627 E Twenty-first st, O  
Brown, Marian R. Los Angeles  
3 LS (H Econ)-2710 Channing way  
Bkly 9520  
\*Brown, Nancy Irena Riverside  
4 LS-2224 Dana st Bkly 6856  
Brown, Nathan San Francisco  
1 Min-2318 Telegraph av Bkly 5964  
Brown, Phyllis Santa Rosa  
1 LS-2420 Channing way Bkly 1766  
Brown, Ralph Mercer San Francisco  
4 Com-1547 Euclid av Bkly 5581  
Brown, Raymond Rainier Los Angeles  
3 LS-2521 Channing way Bkly 5881  
Brown, Robert Lee Napa  
3 Com-1726 Euclid av Bkly 6706  
Brown, Russle May Berkeley  
3 LS-1621 Dwight way Bkly 9371J  
Brown, Ruth Stanwood, Wn.  
1 LS-2311 Bancroft way Bkly 7877  
Browne, Doris Owens Greeley, Colo.  
13 LS-2532 Hillegass av
- Browne, Edwin Chalmers Seattle, Wn.  
3 LS-1919 Bancroft way Bkly 6342J  
Browne, Harold Henderson Berkeley  
4 Chem-2411 Durant av Bkly 474  
Browne, Leta Luella Boulder Creek  
2 LS-1919 Bancroft way Bkly 6342J  
Browne, Lowell Evan Boulder Creek  
1 LS-1919 Bancroft way Bkly 6342J  
Browne, Paul Peterson Marion, Ind.  
1 Mec-1919 Bancroft way Bkly 6342J  
Brownlee, Fred Parke Berkeley  
3 LS-1650 Arch st Bkly 3930  
Bru, Henry John Oakland  
4 LS-1521 Ninth st, O Oakd 5823  
Bruce, John Roberts San Francisco  
4 LS-2521 Hearst av Bkly 708  
Bruck, Edward Porter Los Angeles  
3 LS (H Econ)-1815 Highland pl Bkly 1682  
Brunner, Louise Alhambra  
2 LS-2417 LeConte av Bkly 5650  
Brusher, Mary Philomene Oakland  
1 LS-2258 E Twentieth st, O Frvl 922W  
Brussolo, Vito A. San Francisco  
1 Min-630 Filbert st, S F  
Brust, Paul Raymond San Diego  
4 LS PreM-2248 Telegraph av Bkly 9011  
Bruton, Helen Bell Alameda  
1 LS-1240 St. Charles st, A Ala 3365  
Bryan, Gertrude Anna Isleton  
1 LS-2417 LeConte av Bkly 5650  
Bryant, Edythe Katharine Los Angeles  
13 LS-2405 Prospect st Bkly 1612J  
Brvant, Marjorie Stowell San Jose  
1 Com-2434 Piedmont av Bkly 8341  
Bryant, William Phillip Sparks, Nev.  
2 LS PreA-2520 Virginia st Bkly 2606  
Buben, Zdenka Alameda  
4 LS-1224 Park av, A Ala 3592W  
Buck, George Faunce Stockton  
1 LS PreL-Hotel Shattuck Bkly 7306  
Buckham, Willard Bayard Berkeley  
12 LS-36 Panoramic way Bkly 5322  
Buckingham, Fisher A. Berkeley  
4 Com-2617 College av Bkly 1649  
Buckingham, Henry Proctor Berkeley  
1 LS PreM-2617 College av Bkly 1649  
Buckland, Ruth Maxine San Francisco  
1 LS-4180 Army st, S F Val 4086  
Buckley, Garret Murray San Francisco  
1 LS-758 Chestnut st, S F Frkn 9540  
Buckley, Henry Michael San Francisco  
1 Min-562 Ninth av, S F Pac 6693  
Budge, Jean Medford, Ore.  
1 LS-2725 Channing way Bkly 7950  
Buell, Glenn Budd Solvang  
1 Com-2538 Fulton st Bkly 6993J  
Buell, Odin Goth Solvang  
1 Chem-2538 Fulton st Bkly 6993J



# Undergraduate Students

89

Buell, Walter George	Solvang	Burton, Benjamin Howell, Jr.	Colusa
4 LS and 1 Juris-2538 Fulton st		3 LS PreL-2421 Virginia st	Bkly 8249
	Bkly 6998J	Bush, David Frazer	Martinez
Buffington, Elizabeth Ross	San Francisco	4 LS and 1 Juris-2500 College av	
1 Agr-2405 Prospect st	Bkly 4420		Bkly 5941
Buhler, Mary Ida	Coalinga	Bush, LeRoy Cagwin	Honolulu, T. H.
1 LS-2600 Warring st	Bkly 6407W	1 Mee-2500 College av	Bkly 5941
Bull, Donald Oline	Berkeley	Buaser, Edwin	Los Angeles
3 LS PreL-1716 LeRoy av	Bkly 4311	1 LS PreA-2717 Hearst av	Bkly 5770
Bullen, Margaret	Los Angeles	Buster, Melvin Wright	Huntington Beach
3 LS-2505 College av	Bkly 808	3 Agr-University Farm, Davis	
Bullock, John Daniel	Fort Atkinson, Wis.	Butcher, Richard Henry	Santa Paula
2 Com-2627 Ridge rd	Bkly 2541	1 Agr-2647 Durant av	Bkly 102
Bullock, Laura May	Los Angeles	Butler, Charles Orville	Hanford
1s LS-2542 Durant av	Bkly 3873	1 Agr-2216 Dwight way	Bkly 3745
Bullwinkel, Vera	San Francisco	Butler, Eugene Burton	Colusa
3 LS (H Hist)-1202 Haight st, S F		3 Chem-2316 Bowditch st	Bkly 6504
	Park 3544	Butler, Lauretta	Bisbee, Ariz.
Bunnell, Marion	Oakland	1 LS-1707 Euclid av	Bkly 4072
3 LS (H Engl)-5915 Keith av, O		Butler, Leila Ella	Boise, Idaho
	Pied 6892	4 LS (H Hist)-2711 Virginia st	
Burch, Madeleine Frances	Oakland		Bkly 4606J
2 LS-535 Thirtieth st, O	Oakd 5827	Butler, Rosa Farrington	Grass Valley
Burden, Herbert Spencer	Sacramento	2 LS-2510 Vine st	Bkly 4827
2 LS PreM-2222 Bancroft way		Butler, William Lancelot	San Francisco
	Bkly 6475	13 CE-2316 Bowditch st	Bkly 6504
Burdick, Marie Maxim	Los Angeles	Butler, Winifred Marie	Berkeley
12 LS-1932 Home st	Bkly 4795	13 LS-1429 Oxford st	Bkly 8961J
Burdick, Sherman Roland	Big Pine	Butman, Mary Dorcas	Whittier
1 Min-2534 Bancroft way	Bkly 2596J	4 LS-2400 Piedmont av	Bkly 5224
Burgess, Sullivan	San Fernando	*Butterworth, Emerson McMillan	
1 LS-Oxford apts	Bkly 2385W		Santa Barbara
Burke, Barbara	Berkeley	4 LS-2717 Hearst av	Bkly 5770
4 LS (H Hist)-2911 Russell st		Buttner, Edgar Louis	Martinez
	Bkly 1711	1 Chem-1942 Delaware st	Bkly 7071W
Burke, Sherman Kennedy	Berkeley	Buttolph, Albert Charles	Pasadena
4 LS and 1 Juris-2911 Russell st		1 LS-2426 Virginia st	Bkly 3472
	Bkly 1711	Byington, Lewis Ryan	Healdsburg
Burke, Una Lucille	Oakland	4 LS and 1 Juris-2330 College av	
3 LS-1543 Harrison st, O	Lkd 784		Bkly 5098
Burke, Willard Franklin	Lakeport	Byington, Lucile L.	Healdsburg
15 Mee-1314 Broderick st, S F		1 LS-2416 1/2 Durant av	Bkly 8587
	West 4776	Byrne, Anne Harriet	Santa Cruz
Burket, Elizabeth Fredericks	Berkeley	3 LS-2520 Cedar st	Bkly 2314
2 LS-2704 Virginia st	Bkly 695W	Byrne, Clara Melissa	Long Beach
Burnett, Beatrice Beryl	Oakland	1s LS-2521 Dwight way	Bkly 6646W
2 LS-745 Aileen st, O	Pied 5224J	Byrne, George Griffing	Santa Cruz
Burnham, Eleanor	Berkeley	3 Agr-2001 Allston way	Bkly 6710
3 LS (H Econ)-Bushnell pl	Bkly 841	Cahoon, Louise	Berkeley
Burnham, Elizabeth	Berkeley	3 LS-2904 Piedmont av	Bkly 8938W
3 LS-Bushnell pl	Bkly 841	Caine, Joseph Nightingale	Oakland
Burnham, Ruth	Los Angeles	3 Com-2521 Hearst av	Bkly 708
3 LS-2327 Bancroft way	Bkly 5816	Caine, Robert Warwick	Berkeley
Burns, Stanley Thomas	San Francisco	3 Com-2521 Hearst av	Bkly 708
1s LS PreM-346 Lake st, S F Pac 985		Calden, Guy Cecil, Jr.	Oakland
Burnside, John Pearce	Corning	1 LS-2607 Hearst av	Bkly 5913
2 LS PreL-2211 Ellsworth st		Caldwell, Hildreth Mosher	Berkeley
	Bkly 5496W	1 LS PreM-1437 LeRoy av	Bkly 2816J
Burt, Lula May	Princeton	Caldwell, Nettie Maude	Rocky Ford, Colo.
4 LS-2338 Channing way	Bkly 8151	1 LS-2304 Telegraph av	Bkly 3428

- Caldwell, Orville Robert      Oakland  
3 LS-5800 Adeline st, O      Pied 1067W
- Calhoun, Noel Madison      Medford, Ore.  
21 Com-2400 Piedmont av      Bkly 5224
- Callan, James Anthony      Placerville  
2 LS-2646 Dwight way      Bkly 4104
- Calloway, Mary June      San Diego  
3 LS-2417 LeConte av      Bkly 5650
- Calvert, Hubert Stanley      Los Angeles  
21s LS-2431 College av
- Calvert, Mellie Miller      Los Angeles  
21 LS-2431 College av
- Cameron, Muriel Margaret      Oakland  
3 LS PreL-6124 Chabot rd, O      Pied 3409
- Campbell, Douglass Argyle      Oakland  
2 LS PreL-1330 Myrtle st, O      Oakd 1803
- Campbell, Florence May      Eureka  
3 LS-2220A Bancroft way
- Campbell, Forest Leeper      San Francisco  
1 Min-2519 Ridge rd      Bkly 1416
- Campbell, Georgia May      Blue Lake  
2 LS-1526 Walnut st      Bkly 7263W
- Campbell, Gladys M. Elizabeth      Oakland  
3 LS-1752 Sixty-ninth av, O
- Campbell, Helen Douglas      Vancouver, B. C.  
4 LS-2525 Piedmont av      Bkly 3679J
- Campbell, James Bryans      Eureka  
2 Chem-2235 1/2 Haste st
- Campbell, Jane Paxton      Portland, Ore.  
3 LS (H Engl)-2739 Ellsworth st      Bkly 829J
- Campbell, Laura Louise      Blue Lake  
3 LS-1526 Walnut st      Bkly 7263W
- Campbell, Markton, Jr.      Honolulu, T. H.  
3 Agr-2647 Durant av      Bkly 102
- Campbell, May Elma      El Paso, Texas  
2 LS-2400 Piedmont av      Bkly 5224
- Campbell, Mervyn Fitch      Salinas  
2 LS PreA-2305 Bancroft way      Bkly 7461
- Campbell, Monnie Louise      Berkeley  
21s LS-2739 Ellsworth st      Bkly 899J
- Campbell, Nellie Susan      Medford, Ore.  
1 LS-2525 College av      Bkly 5596W
- Campbell, Ruby Catherine      Orange  
4 LS-2499 Channing way      Bkly 4648
- Campbell, Thomas Anderson      Berkeley  
1s Min-1726 Euclid av      Bkly 6706
- Camper, Ernest      Berkeley  
4 LS-1516 LeRoy av      Bkly 1755
- Canavan, Mabel Clare      Berkeley  
2 LS-2700 Dana st      Bkly 1690
- Canby, Alfred Justice      San Fernando  
2 LS-Oxford apts      Bkly 2385W
- Candee, James Somers      El Cajon  
4 LS-2717 Hearst av      Bkly 5770
- Canman, Alice      Sacramento  
3 LS-2713 Haste st      Bkly 2148
- Cannon, Lenabelle      Ventura  
2 LS-1707 Euclid av      Bkly 4072
- Cannon, Milner Vennerstrom      Carmel  
1 LS-2231 Dana st      Bkly 6361J
- Cantelow, Elbridge Miles      Berkeley  
1 Com-2515 Derby st      Bkly 3883J
- Cantwell, Arthur Blair      National City  
2 LS PreL-2345 College av      Bkly 62
- Carballeo, Ernesto Jalandoni      Iloilo, P. I.  
21 LS PreM-1822 University av
- Card, Margery Sanders      Oakland  
2s LS-424 Perkins st, O      Oakd 817
- Cardwell, Nancy Eather      Chowchilla  
1 LS-2721 Haste st      Bkly 8800
- Carey, Charles Josef      Sacramento  
4 LS and 1 Juris-2601 Channing way      Bkly 5904
- Carey, Francis Kenyon      Los Angeles  
3 Mec-2521 Hearst av      Bkly 708
- Carithers, Gladys Ellen      Santa Rosa  
21 LS-2318 Telegraph av      Bkly 5964
- Carithers, Zelma Elizabeth      Santa Rosa  
22 LS-2318 Telegraph av      Bkly 5964
- Carkeek, Charles Burton      Pasadena  
3 LS-2318 Telegraph av      Bkly 5964
- Carlisle, Pearl Melvina      Oakland  
11 LS PreL-672 Eighth st, O      Oakd 3940
- Carlsen, Grover Cleveland      Oakland  
3s LS-2509 E Sixteenth st, O      Frvl 2006J
- Carlson, Anna Eldora      Patterson  
24 LS-2736 Haste st      Bkly 8680
- Carlson, Anna Frances      Sacramento  
22 LS-2224 Dana st      Bkly 6656
- Carlson, Carl Victor      Riverside  
2 Com-2162 Center st      Bkly 2875W
- Carlson, Clarence Gustav      Oleander  
3 Com-1932 Home st      Bkly 4795W
- Carlson, Emil Joseph      Fresno  
2 LS-1932 Home st      Bkly 4795W
- Carlson, Vivian Everett      Marshfield, Ore.  
3 LS PreM (H Zool)-2600 Durant av      Bkly 2593
- Carlton, Edith      Berkeley  
3 LS-2730 Derby st      Bkly 3862
- Carlton, Marjorie S.      Berkeley  
4 LS-2730 Derby st      Bkly 3862
- Carlton, Ethel Spencer      San Jose  
2 LS-2542 Durant av      Bkly 3873
- Carlson, William Clarence      San Francisco  
11 Mec-363 Twelfth av, S F      Pac 7358
- Carmichael, Charles Hiram      Livingston  
1 Min-2511 Dwight way      Bkly 7079
- \*Carmichael, Irene      Livingston  
4 LS-2511 Dwight way      Bkly 7079
- Carmichael, Ruth Margaret      San Francisco  
2 LS-2618 Haste st      Bkly 6102W
- Carnahan, Elizabeth Wood      Pasadena  
1 LS-1700 Euclid av      Bkly 1625
- Carniglia, Harold Chester      San Francisco  
4 CF-633 Kirkham st, S F      Snst 2326
- Carpenter, Gertrude Agnes      Oakland  
3 LS-2500 Bancroft way      Bkly 1848
- Carpenter, Irene      Berkeley  
14 LS-2212 Ellsworth st      Bkly 6822W

# Undergraduate Students

91

Carpenter, James R.	Los Angeles	Caulkins, Mary Faye	Ceres
3 LS-2519 Ridge rd	Bkly 1416	14 LS-2223 Chapel st	
Carpenter, Zelma Elizabeth	Ione	Cavagnaro, James Finley	Oakland
2 LS-2152 Blake st		1 Com-400 Lagunitas av, O	Oakd 5879
Carr, Bernice Charlene	Los Angeles	Cavagnaro, Priscilla Anastasia	Oakland
2 LS-2725 Channing way	Bkly 7950	4 LS and 1 Juris-400 Lagunitas av, O	
Carr, George James	Carrville		Oakd 5879
4 LS and 1 Juris-2610 Durant av		Cavanaugh, Margaret Ruth	Sacramento
	Bkly 7804	11 LS-2512 Benvenue av	Bkly 8660
Carr, Margaret Lois	San Rafael	Cavins, Arline Blanche	Bakersfield
1 LS-2701 Claremont blvd	Bkly 6030	3 LS PreL-718 Arlington av	
Carrier, Emily Beatrice	Santa Barbara	Cereghino, Isidoro Anthony	Berkeley
3 LS PreM-2509 Hilgard av	Bkly 8850J	2 LS PreL-2422 Russell st	Bkly 5873W
Carrigan, Edwin Harris	San Francisco	Cerini, Narcissa Mary	Oakland
1 LS-1815 Highland pl	Bkly 1682	1 LS-125 Walsworth av, O	Oakd 5393
Carroll, Isabel Kathleen	Wheatland, Wyo.	Chadbourne, Warner Sabin	Suisun
3 LS-Berkeley Inn	Bkly 6370	4 Agr-U'niversity Farm, Davis	
Carroll, William Francis	Arcata	Chadwick, Robert Isham	Brentwood
3 Agr-University Farm, Davis		1 Mec-2400 McKinley av	Bkly 3198
Carroll, Zelma Alice	Elko, Nev.	Chamberlain, Leon Hoyt	Berkeley
4 LS-1700 Euclid av	Bkly 1625	12 Mec-2309 Keith av	Bkly 9327
Carson, George Earl	Gardena	Chamberlain, Pauline	Oakland
3 LS-2251 College av	Bkly 9107	4 LS PreA (H)-2309 Keith av	Bkly 9327
Carter, Anna Breckinridge	Riverside	*Chamberlin, Sue	Berkeley
4 LS-2410 Bancroft way	Bkly 4443W	4 LS-1158 Green st, S F	Pspst 178
Carter, Harriet	Riverside	Chambers, Constance Edith	Hollywood
11 LS-2525 Durant av	Bkly 8410	1 LS-2417 LeConte av	Bkly 5650
Carter, Lillias May	Oakland	Chambers, Elwyn Whitman	Oakland
3 LS-657 Sixty-second st, O		1 LS-590 Twelfth st, O	Lkad 1482
Carter, Margaret	Berkeley	Chambers, Norris Callister	Santa Cruz
2 LS-2525 Durant av	Bkly 8411	1 Com-1708 Walnut st	Bkly 5759W
Carter, William Breckinridge	Riverside	Chambers, Rav Kestor	Millford, Kans.
3 LS PreA-2410 Bancroft way		23 LS PreM-2214 Vine st	Bkly 3070W
	Bkly 4443W	Champlin, Florence Leone	Berkeley
Cary, Irene	Lodi	2 LS-2421 LeConte av	Bkly 3062
11 LS-2966 Russell st	Bkly 2907	Champlin, Walter Budd	Berkeley
Casella, Frank G.	San Francisco	3 Com-2521 Hearst av	Bkly 708
1 LS PreM-2025 Virginia st	Bkly 8964	Chan, Clarence Kuhn	Oakland
Casev, Robert Prince	Huntington Park	1s CE-725 Harrison st, O	Pekin 116
2 LS PreL-2200 Piedmont av	Bkly 6760	Chan, Hong Ping	Oakland
Cassaretto, Harry Eugene	Lodi	1s LS-321 Eighth st, O	Oakd 9344
1 LS-1751 Walnut st	Bkly 9399W	Chandler, Louise Mortimer	Mesa, Ariz.
Cassin, Kathryn	San Jose	3 LS-1739 Euclid av	Bkly 493
2 LS PreL-2417 LeConte av	Bkly 5650	Chandler, Marian Lovina	Mesa, Ariz.
Castle, Beverly Burgess	Stockton	3 LS-1739 Euclid av	Bkly 493
1 Agr-2316 Bowditch st	Bkly 6504	Chang, Doo	Shanghai, China
Cates, Julia W.	Berkeley	2 LS-1998 University av	
4 LS (H French)-1705 Madera st		Chang, Shau Min	China
	Bkly 4614	13 LS-2504 Regent st	Bkly 3893J
Cates, William Kendall	Idaho Falls, Idaho	Chang, Tze Zaung	Shanghai, China
1 Mec-2235 Durant av	Bkly 7929	3 LS PreL-1998 University av	
Catland, Irene D.	Santa Ana	Chaplin, Claude Moore	Fresno
3 LS (H Hshld Art)-2519 Hillegass av		2s LS-LaFayette apts	Bkly 4026
	Bkly 477	Chapman, Alfred Scott, Jr.	Los Angeles
Cattern, Marymae McClain	South Pasadena	2 LS PreL-1809 Euclid av	Bkly 1615
1 LS-2410 Dana st	Bkly 7836J	Chapman, Calvin C.	Denver, Colo.
Caudle, Erdy Beatrice	Exeter	3 LS-2226 Chapel st	Bkly 879
1 LS-1559 LeRoy av	Bkly 8975J	Chapman, Emma Woodhouse	Oakland
Caulkins, Ellis Judson	Ceres	21 LS-5661 Ayala st, O	
11 Agr-2223 Chapel st			

- Chapman, Gordon Kimball Berkeley  
3 LS PreM-2407 S Atherton st  
Bkly 3330
- Chapman, Grace Covina  
1 LS-2627 Hearst av Bkly 3229
- Chappelka, Ethel Ferrell Ray, Ariz.  
1 LS-2224 Dana st Bkly 6656
- Chappell, Howard Francis Los Banos  
4 Agr-1941 Delaware st  
1 Mec-115 Winfield st, S F Valen 2994
- Charlson, Arthur Abel San Francisco  
2 CE-2535 Channing way Bkly 6201W
- Chase, Alice Louise Berkeley  
1s LS-2626 Haste st Bkly 6359W
- Chase, Caroline Esther Berkeley  
2 LS-1619 Josephine st Bkly 5459J
- Chase, Josephine Lula Vacaville  
1s LS-2532 Hillegass av Bkly 9294J
- Chase, Ralph Noble Santa Ana  
1 Mec-2115b Durant av  
Chatfield, Ruth Brown Biggs  
1 LS-2421 LeConte av Bkly 3062
- Chatfield, Vera Mae Biggs  
2s LS-2421 LeConte av Bkly 3062
- Chaves, Anthony Carvalho Kennett  
2 Com-2530 Ridge rd Bkly 775W
- Cheim, Arthur Marysville  
3 LS-2436 Durant av Bkly 6780J
- Cheim, Helen Marysville  
1 LS-2314 Hilgard av Bkly 4033J
- Cheim, Leo G. Marysville  
2 Com-2436 Durant av Bkly 6780J
- Chen, Tsing Hua Shanghai, China  
2 Com-1998 University av  
Cheney, St. Clair Garnett San Francisco  
1 Agr-33 Spruce st, S F Pac 2573
- Chenoweth, Clyde G. Berkeley  
2 LS-2247 Bancroft way Bkly 7429
- Chesley, Carlton Carswell Oakland  
1 Com-471 Thirty-fourth st, O  
Chew, Edward Chapin Oakland  
2 CE-3765 Shafter av. O Pied 649W
- Chew, Rose Oakland  
4 LS-3765 Shafter av. O Pied 649W
- Chidester, Edith Lucille Medford, Ore.  
3 LS (H Math)-2826 Kelsey st Bkly 6189W
- Chilcote, Lois Lizzie Berkeley  
1 LS-2619 Ashby av Bkly 1252W
- Childress, Marmion Hugo Berkeley  
4 LS and 1 Med-2415 Woolsey st Bkly 7539
- Childs, Ralph Spear Oakland  
2 Chem-3050 Hopkins st, O Frvl 1533
- Chilson, Mary Margaret Pueblo, Colo.  
4 LS (H Latin)-2206 Atherton st Bkly 4208J
- Ching, Sarah Mu Jin Berkeley  
4 LS-2713 Parker st Bkly 7485J
- Chisholm, Gladys Los Angeles  
1 LS-2726 Telegraph av Bkly 303W
- Chisholm, William Hugh Twin Falls, Idaho  
3 LS PreM-2012 Delaware st  
Chiu, Koon Hoi Canton, China  
2 LS-2504 Regent st Bkly 3893J
- Chiu, Tsao Whe  
Taungming, Kiang-Su, China  
1 LS-2107 Durant av  
Chivers, Martha Pelton Mill Valley  
1 LS-Mill Valley  
Chivers, William Albert Pacific Grove  
3 LS PreL-2310 College av Bkly 4126J
- Choudhury, Nalini Ranjan Chittagong, Bengal, India  
3 LS PreM-2026 Center st Bkly 2503J
- Chow, Tse Yue Chang Sha, Hunan, China  
1 Min-2213 Bancroft way Bkly 1238
- Chow, Yin Tze Hunan, China  
3 Min-2407 Fulton st Bkly 1112W
- Chrisman, Ruth Adelaide Redondo Beach  
2 LS-2510 Buena Vista way Bkly 2890W
- Christensen, Marian Elizabeth San Rafael  
4 LS (H Engl)-2723 Durant av Bkly 9531
- Christenson, Fred Gerhardt Selma  
1 Agr-1643 Euclid av Bkly 2094
- Christiansen, Alma Marie Oakland  
1 LS-1033 Sixtieth st, O  
Christie, Fay Irvin Lassen  
1 LS PreL-2647 Durant av Bkly 102
- Christie, Laurence Glenn Oakland  
1 Min-1069 Harvard rd, O Oakd 3732
- Christie, Randolph Arthur Petaluma  
3 LS-404 Cole st, S F Mkt 6025
- Christie, Vera Lillian Sacramento  
3 LS (H Econ)-2725 Channing way Bkly 7950
- Christopher, Harold Seraphim Los Angeles  
3 Chem (H)-2632 Channing way  
Christopher, Victor Norman San Jose  
2 Agr-2332 College av Bkly 1134
- Chryst, Margaret Waters Hastings, Mich.  
1s LS-3120 Telegraph av Bkly 2747
- Chummbuque, Angelino Manila, P.I.  
1 Mec-1822 University av  
Ciprico, John O'Neil San Rafael  
3 Mec-2251 College av Bkly 9107
- Clampett, Donald San Francisco  
1 Mec-1941 Clav st, S F Frkn 1334
- \*Clancy, Katherine Pomona  
4 LS-2650 Ridge rd Bkly 9069
- Clark, Arthur Leo Fresno  
4 LS and 1 Juris-2606 Dwight way Bkly 139
- Clark, Austin William Berkeley  
2 LS-1815 Highland pl Bkly 1662
- Clark, Carroll Oakland  
4 LS PreA (H)-2557 San Pablo av. O Oakd 3277

Clark, Charles Lester	Santa Rosa	Clauson, Jennie Eleanor	Kingsburg
4 LS-2115A Durant av	Bkly 7073J	2 LS-1864 Scenic av	Bkly 2099
Clark, Cora Marie	Berkeley	Clauss, John, Jr.	Sacramento
*1 LS-2208 Grove st		2 LS-2610 Durant av	Bkly 7804
Clark, Elinor	Berkeley	Clay, Arthur Romo	Stockton
2 Agr-11 El Camino Real	Bkly 6798	1 LS PreA-2428 College av	Bkly 4748
Clark, Erskine Phelps	La Grange, Ill.	Clearv, James Maxwell	Oakland
1 LS-2410 Warring st	Bkly 3666	1 Com-5661 Genoa st, O	Pied 1461W
Clark, George Milton	San Francisco	Clearv, Leslie Allen	Lindsay
1 LS-2554 California st, S F	West 890	3 LS PreL-2500 College av	Bkly 5941
Clark, George Williams	Los Angeles	Cleaveland, Alice Mae	Concord
8 LS-2646 Dwight way	Bkly 4104	1 LS-1648 Euclid av	Bkly 2094J
Clark, Gertrude Agnes	Bakersfield	Cleaver, Curtis Herbert	Portland, Ore.
8 LS-2521 Dwight way	Bkly 6646W	1 Chem-1730 La Loma av	Bkly 8716
Clark, Harriet Mand	San Jose	Cleland, Lucile	Ukiah
2 LS-1610 La Loma av		*1 LS-2539 Durant av	
Clark, Julia Dexter	Berkeley	Clement, Alfred	Berkeley
1 LS-1626 Spruce st	Bkly 5665J	1 Agr-1933 Virginia st	Bkly 6094J
Clark, Karl Barber	El Cajon	Clement, Catharine	St. Helena
3 LS (H Zool)-2411 Virginia st		*2 LS-1933 Virginia st	Bkly 6094J
	Bkly 7205W	Clements, Thomas Hubbard	Los Angeles
Clark, Lenora Charlotte	Arroyo Grande	4 Chem-1704 Walnut st	Bkly 9383
1 LS-2526 Hilgard av	Bkly 1441	Clemo, Alice Elizabeth	Oroville
Clark, Marjorie Marquand	San Francisco	1 LS-1707 Euclid av	Bkly 4072
3 Agr-2223 Chapel st	Bkly 5768	Clifford, Herbert George	Pasadena
Clark, Mary Gale	Piedmont	3 Agr-2521 Hearst av	Bkly 708
2 LS-224 Pala av, P	Pied 4261W	Clifford, Ruth Alice	Lindsay
Clark, Morris Richard	Berkeley	4 LS-1516 Scenic av	Bkly 7049W
3 LS PreL-2888 Bancroft way		Cline, John Thaddeus	San Bernardino
	Bkly 8118	1 Com-2228 Dana st	Bkly 1053
Clark, Pauline	Santa Rosa	Cline, Thomas Harlev	San Bernardino
2 LS-2420 Channing way	Bkly 1766	*1 Mec-Oxford apts	
Clark, Robert Campbell	Berkeley	Cloud, Dorothy	La Crescenta
4 LS (H Econ)-2508 Ashby av		1 LS-2709 College av	Bkly 5140W
	Bkly 7511J	Clough, Charles Hoyt	Inglewood
Clark, Robert Reece	Calistoga	*1 Agr-2530 Dwight way	Bkly 945J
1 LS PreL-1409 Josephine st		Clow, William Thomas	Berkeley
Clark, Samuel Gilbert	Monrovia	4 Agr-University Farm, Davis	
1 LS-2442 Haste st	Bkly 5414	Clowdsley, John Upton	Stockton
*Clark, Warner	Claremont	4s LS PreA-Arch bldg, Campus	
4 LS-2214 Union st	Bkly 2483	Clowes, Helen Wheeler	Stockton
Clark, William Harold	El Cajon	4 LS-2721 Haste st	Bkly 8800
1 LS-2411 Virginia st	Bkly 7205W	Cluff, Ethel Loretta	Oakland
Clark, Zell Favel	Stockton	1 LS-2314 Hilgard av	Bkly 4033J
4 LS-2630 Haste st	Bkly 7153W	Coakley, Marie Eleanor	Oakland
Clarke, Camilla D.	Pasadena	*1 LS-526 Thirty-second st, O	
4 LS-2539 Durant av	Bkly 8842W		Pied 6505W
Clarke, Dorothy Ward	Berkeley	Coates, Barrett Nelson	Sacramento
2 LS-2317 LeConte av	Bkly 1930	4 Com (H Econ)-2212 Bancroft way	
Clarke, Francis Joseph	San Francisco		
*1 LS PreM-1182 Guerrero st, S F		Coates, Kenneth Henry	Sacramento
	Valen 5944	2 LS-2212 Bancroft way	Bkly 6391W
Clarke, Margaret Beath	Santa Rosa	Cobb, Herndon Haral	Berkeley
*2 LS-1531 Fruitvale av, O	Frvl 1398W	1 Com-3108 Lewiston av	Pied 4384J
Clarke, Roberta Carrick	Tulare	Cobb, James Forrest, Jr.	Berkeley
4 LS-1743 Delaware st		3 LS PreM-3108 Lewiston av	
Clarkson, Fuller	Berkeley		Pied 4384J
3 LS-2414 Channing way	Bkly 244J	Cobb, Vaughn Merwin	Los Angeles
Claudius, Harold G.	Oakland	4 Com-2416 College av	Bkly 8476J
*3 Agr-546 Twenty-fourth st, O		Coblents, Gladys Lurelda	Lodi
	Oakd 5968	1 LS-1643 Euclid av	

Coblentz, Stanton Arthur	Stockton	Coleman, Freyman	Santa Rosa
4 LS and 1 Juris-2519 Durant av		3 Com-2428 Haste st	Bkly 2160W
	Bkly 8543	Coleman, Grace Owen	Oakland
Coblentz, Zach Benjamin	Santa Maria	21 LS-5919 Shafter av. O	Pied 2631J
4 LS and 1 Med-2611 Durant av		Coleman, Helen McChyne	Castroville
	Bkvl 4525W	2 LS-2905 Garber st	Bkly 3557J
Coburn, Leonard Avon	Visalia	Coles, Esther May	Newman
4 CE-2332 College av	Bkly 1134	1 LS-2525 College av	Bkly 5596W
Cochran, Hugh McCauley	San Francisco	Coles, Herbert Morey	San Francisco
4 Mec-2528 Ridge rd	Bkly 3277	3 Agr-University Farm, Davis	
Cochrane, Frances Morris	Colusa	Coles, William Marvin	San Francisco
3 LS-2328 Blake st	Bkly 8395J	1 Agr-2600 Durant av	Bkly 2593
Codellas, Pan Stamatis	Tripolis, Greece	Collarino, Mario Charles	Alameda
22 LS PreM-557 Kearney st. S F		3 Agr-University Farm, Davis	
	Grfid 2177	Collett, Maude Leona	Bishop
Cody, Cora Edith	San Jose	2 LS-2328 Bowditch st	Bkly 6201J
4 LS-2428 Channing way	Bkly 6408	Collins, Donald Bennallack	Berkeley
Coe, Elmon Frank	Mesa, Ariz.	3 Min-2217 Oregon st	
4 LS and 1 Juris-2701 Hearst av		Collins, Evelyn Everett	Los Angeles
	Bkly 2421	21s LS-2276 Shattuck av	Bkly 4147J
Coe, Jessie Gertrude	Springfield, Ill.	Collins, Francis Eusebius	Vallejo
1 Chem-1110 Eddy st. S F	West 5878	3 LS PreM-2333 College av	Bkly 1722
Coe, Kathryn	Oakland	Collins, Frank Leland	Ripon
2 LS-2709 Channing way	Bkly 8528	11 Mec-2618 Durant av	Bkly 8858
Coen, Winnifred Eggleston	Los Angeles	Collins, Henry Charles	San Francisco
1 LS-1131 Arch st	Bkly 2255J	4 LS PreA-2625 Piedmont av	Bkly 8559
Coffen, John M.	Pasadena	Collins, Julius Lloyd	Berkeley
4 Agr-University Farm, Davis		4 Agr-Conservatory bldg, Campus	
Coffey, George Wesley	Oakland		Local 82
4 Min-64 Santa Clara av. O	Pied 912	Collver, Robert Douglas	Oakland
Coffin, George Holman, Jr.	Hollywood	13s LS-2612 Regent st	Bkly 8104W
21s LS-1619 Walnut st	Bkly 2611J	*Colton, Clara Avery	Berkeley
Cogswell, Constance Gary	Spokane, Wash.	4 LS-123 Parkside dr	Bkly 5867
2 LS-2430 Hilgard av		Colver, Wayne	San Francisco
Cohan, Ahron Hillelovitch		12 Chem-1175 Fifth-fifth st. O	Pied 2888
	Harbin, Manchuria	Combs, Pauline Estelle	Berkeley
21 Mec-2235 1/2 Chapel st	Bkly 3196J	1 LS-2708 Regent st	
Cohen, Douglas Bray	Oakland	Compton, Madison Henry	Los Angeles
4 Agr-University Farm, Davis		4 LS (H Econ)-282 Eighth st. O	Oakd 7285
Cohen, Emelita	Oakland		Monrovia
2 LS-1440 Twenty-ninth av. O		Compton, Thomas Foster	
	Frvl 1967W	2 LS PreL-1734 Walnut st	
Cohen, Emilie Alice	Alameda	Conant, Roger Nugent	Berkeley
12 LS-2618 Lincoln av. A	Ala 939	2 CE-1804 University av	Bkly 9018W
Cohen, George Washington	Los Angeles	Congdon, Edward Pearne	Berkeley
4 LS and 1 Juris-2311 Bowditch st		5 CE-2527 Piedmont av	Bkly 4253
	Bkly 7037W	Conklin, Alvah Putnam	Berkeley
Cohn, Milton Harold	San Francisco	4 LS PreA-22 Bridge rd	Bkly 9145W
4 LS and 1 Juris-1467 O'Farrell st. S F		Conkling, Joseph Hamilton	El Centro
	Flmr 1455	2 LS PreL-2418 College av	Bkly 4440
Cole, Clifford Bert	Oakland	Conley, Matthew Maxwell	Madera
4 LS-2601 Durant av	Bkly 23	2 LS PreL-2522 Ridge rd	Bkly 5950
Cole, Earl Meno	Oakland	Connell, Edith Marion	Berkeley
11 LS-3084 Twenty-second av. O		4 LS-2329 Carlton st	Bkly 1673
	Frvl 1324W	*Connell, Mabel Anna	Berkeley
Cole, Florence Irene	Redlands	4 LS-2329 Carlton st	Bkly 1673
23 LS-2417 LeConte av	Bkly 5650	Connolly, Marie Louise	Pueblo, Colo.
Cole, Martha	East Auburn	2 LS-1619 Josephine st	Bkly 5459J
3 LS-2217 Fulton st	Bkly 3810	Connolly, Thomas Joseph	Sacramento
Cole, Mary Ethel	San Francisco	3 CE-2410 Fulton st	Bkly 5768W
1 LS-2500 Durant av	Bkly 8064W		

- Connick, Milton Campbell      Eureka  
   2 LS-1526 Walnut st      Bkly 7263W  
 Connolly, Robert Emmett      Ukiah  
   1 LS PreL-2647 Durant av      Bkly 102  
 Connor, Roma Enola      Great Falls, Mont.  
   1 LS-2314 Dwight way      Bkly 3454W  
 Conover, Vivian Eileene      Venice  
   12 LS-2815 Forest av      Bkly 6553W  
 Conrad, Earl Thompson      Santa Barbara  
   12 Com-2305 Bancroft way      Bkly 2641  
 Conrad, John P.      San Bernardino  
   4 Agr-2521 Durant av      Bkly 3437  
 Conway, Mary Eugenia      San Francisco  
   1 LS PreM-148 Ninth av, S F      Pac 5308  
 Cook, Estelle Eliza      Berkeley  
   13 LS-2815 Channing way      Bkly 4383  
 Cook, John Elliott      Berkeley  
   1 LS PreL-2747 Hillegass av      Bkly 1219W  
 Cook, Kathryn      Berkeley  
   2 LS-2747 Hillegass av      Bkly 1219W  
 Cook, Marjorie Helen      Ventura  
   2 LS-1707 Euclid av      Bkly 4072  
 Cook, Peter, Jr.      San Rafael  
   1 LS-2815 Channing way      Bkly 1611J  
 Cook, Virginia      Oakland  
   1 LS-304 Lakeshore blvd, O      Mer 3501  
 Cook, William Henry      Eureka  
   2 Com-Lafayette apts      Hollywood  
   12 LS-2425 LeConte av      Bkly 4334  
 Cooke, Lucile Constance      San Francisco  
   1 LS-2131 Carlton st      Bkly 5737W  
 Cooley, John Louis      Cloverdale  
   3 Mec-2607 Hearst av      Bkly 5913  
 Cooper, Charles Williams      San Francisco  
   1 LS PreL-1614 Vallejo st, S F      Frkn 4709  
 Cooper, Dorothy Dee      Vallejo  
   3 LS-2429 Channing way      Bkly 4648  
 Cooper, Gladys Sperry      Berkeley  
   1 LS-1607 Milvia st      Bkly 1861J  
 Cooper, Lilla Ruth      Hayward  
   1 LS-2627 Hearst av      Bkly 4009  
 Cooper, Mary Kathleen      Berkeley  
   1 LS-2247 Stuart st      Bkly 2496J  
 Cooper, Ruth Estelle      Berkeley  
   1 LS-2247 Stuart st      Bkly 2496J  
 Cooper, Virginia Schmid      Berkeley  
   1 LS-2125A Cedar st      Red Bluff  
   4 LS-819 Gilman st      Las Vegas, Nev.  
 Coppinger, Gladys Bradford      Durango, Colo.  
   13 LS-2505 College av      Bkly 808  
 Copsey, Charles Noble      Lakeport  
   1 Agr-2413 Dwight way      Los Angeles  
 Corbett, Fremont Thomas      Los Angeles  
   2 Mec-1406 Hawthorne ter      Bkly 4828J  
 Corbett, George Austin      Eureka  
   1 LS PreL-1706 Walnut st      Bkly 6731W  
 Corbin, Adelaide Jesse      San Francisco  
   1 LS-2739 Parker st      Bkly 3743J  
 Corbin, Corbin      Santa Monica  
   4 LS PreL-2647 Durant av      Bkly 102  
 Corcoran, Eleanor Nvda      Escanaba, Mich.  
   2 LS-2533 Ridge rd      Bkly 3814J  
 Corcoran, Mary Agnes      San Francisco  
   1 LS-1265 Florida st, S F      Valen 6086  
 Corcoran, Thomas Francis      Spokane, Wn.  
   2 Chem-2427 Channing way      Bkly 7325  
 Cordé, Edith Bertha      Alameda  
   1 LS-1281 Caroline st, A      Ala 2044  
 Corey, Frederick Carrington      La Jolla  
   4 Agr-University Farm, Davis      Napa  
 Corlett, Harry Beaumont      Bkly 3485  
 Cormack, Kenneth Robert      San Francisco  
   12 CE-2425 LeConte av      Bkly 4334  
 Cornelius, Brother Fidells      Oakland  
   4 LS PreA-St. Mary's College, O      Lksd 204  
 Cornell, Marion Dorothy      Alameda  
   12 LS-1208 Lafayette st, A      Ala 2599  
 Cornick, Homer Henry      Alameda  
   3 LS-1137 Bishop st, A      Gardiner, Ore.  
 Cornwall, Margaret Denton      Bkly 1247  
   12 LS-2230 Chapel st      Fresno  
 Corrick, Mildred Gwin      Bkly 2276J  
   2 LS-2641 1/2 Channing way      Petaluma  
 Corry, Mary Gladys      Bkly 8391  
   2 LS-2420 College av      Los Angeles  
 Cortelyou, Ollierave      Bkly 8898W  
   3 LS-2247 Ashby av      Berkeley  
 Cortelyou, Raymond Winter      Bkly 6396  
   1 LS-1830 Walnut st      Etna Mills  
 Cory, Oliver H.      Bkly 6504  
   5 Mec-2316 Bowditch st      Sacramento  
 Cory, Virginia Elizabeth      Bkly 1615  
   3 LS (H Latin)-1809 Euclid av      Berkeley  
 Cosby, Stanley Wallace      Bkly 288  
   3 Agr-86 Eucalyptus rd      Ripon  
 Cosgriff, Richard John      Bkly 4440  
   2 LS-2418 College av      Richmond  
 Costa, Theresa Alicia      Rchd 67  
   1 LS-438 Twelfth st, R      Los Angeles  
 Cotton, Helen Gertrude      Bkly 6646J  
   13 LS-2522 Dwight way      Nevada City  
 \*Coughlan, William Darrell      Randolph 994  
   4 LS-32 Santa Rosa av, S F      Las Vegas, Nev.  
 Coughlin, Joseph John      Bkly 1675  
   1 Mec-2520 Durant av      Pasadena  
 Coulston, John Thomas      Bkly 5770  
   3 Agr-2717 Hearst av      Sacramento  
 Coulter, Blanche G.      Bkly 2351  
   3 LS-1715 LeRoy av      Berkeley  
 Coulter, John Wesley      Bkly 2421  
   3 LS (H Geog)-2701 Hearst av

- Coulter, Thomas, Jr. Sacramento  
1 Agr-2529 Hearst av Bkly 40  
Countryman, Ralph Harrison San Francisco  
2 Com PreL-2845 College av Bkly 62  
Courtney, Bird Rufus Greenfield  
1 Agr-2530 Hilgard av Bkly 3536W  
Courtright, Benjamin Spokane, Wash.  
3 Agr-1434 Scenic av Bkly 6636  
Couse, Helen Louise San Diego  
2 LS-1520 Arch st Bkly 1064  
Covington, Joseph Edwin Oakland  
3 LS-2273 Shattuck av Bkly 8323  
Covington, Maxie Ft. Smith, Ark.  
4 LS-2523 Ridge rd Bkly 8639J  
Cowan, Angus Barbara Fresno  
2 LS-2710 Channing way Bkly 9520  
Cowan, Frank Jennings Orosi  
1 Agr-1730 La Loma av Bkly 8716  
Cowan, Freddie Alice Orosi  
3 LS-2217 Fulton st Bkly 3810  
Cowan, Hilda Noble San Francisco  
2 LS-1539 Hawthorne ter Bkly 5009J  
Cowan, Myrle Josephine Berkeley  
1 LS-1604 Derby st San Francisco  
Cowan, Valance Scott Bkly 5009J  
3 LS-1539 Hawthorne ter Bkly 5009J  
Cowell, Charles Merritt Oakland  
21 Mec-1515 Alice st, O Oakd 6683  
Cowell, Helene Los Angeles  
2 LS-2725 Channing way Bkly 7950  
Cowell, William Adelbert Stockton  
2 Com-2428 College av Bkly 4748  
Cowin, Alden Lloyd Oakland  
2 Chem-2933 Delaware st, O Frvl 2993W  
Cox, Catharine Virginia Berkeley  
1 LS-2512 Etna st Bkly 4729J  
Cox, Dorothy Alice Oakland  
1 LS-468 Ellita av, O Oakd 3068  
Cox, Dorothy Maynard Santa Cruz  
3 LS (H Hist)-2328 Bowditch st Bkly 6201J  
Cox, Katharine Isabel Oakland  
4 LS-463 Ellita av, O Oakd 3068  
Cox, Ruby Linville St. Joseph, Mo.  
2 LS-1622 Milvia st  
Coyle, Catherine Mary Oakland  
21s LS-602 Forty-seventh st, O  
Coyle, Julia Margaret Sacramento  
1 LS-2627 Hearst av  
Coyne, George Presly Bakersfield  
2 LS PreL-2200 Piedmont av Bkly 6760  
Crabtree, Harriet Gregory San Diego  
1 LS-2709 Channing way Bkly 8528  
Craddock, Sara Jane Greenville, Tex.  
3 LS-2327 Bancroft way Bkly 5816  
Craddock, Warren Nicholas Redding  
2 Min-2627 Ridge rd Bkly 2541  
Craft, Kenneth Sanborn Oakland  
2 LS PreL-1724 Fifteenth av, O Mer 4861  
Crafts, Alden Springer Oakland  
1 Agr-6108 Harwood av, O  
Crafts, John Gardner Hale Oakland  
4 LS PreM-654 Vernon st, O Pied 1693  
Craig, Arthur Gilroy  
13 Mec-2506 College av  
Craig, Ethel Blanche Los Angeles  
3 LS-2630 Bancroft way Bkly 8469W  
Craig, Irma Amelia Riverside  
1 LS-2110 Kittredge st Bkly 2300  
Crall, Herbert David Los Gatos  
12 Chem-2528 Ridge rd Bkly 3277  
Cralle, Jefferson San Diego  
3 LS-2236 Durant av Bkly 7985  
Cramer, Chester Rudolph F. San Francisco  
4 Agr-2316 Bowditch st Bkly 6504  
Crane, Frank Berkeley  
3 Com-1519 Bonita av  
Crane, Kathleen Colusa  
2 LS-3151 College av Pied 1547J  
Crane, Mildred Sacramento  
4 LS (H Bot)-2695 Cedar st Bkly 538  
Cranston, Alice Beulah Santa Ana  
4 LS-2721 Haste st Bkly 8800  
Crawford, Ella Genevieve San Francisco  
3 LS-2721 Haste st Bkly 8800  
\*Crawford, Helen Topeka, Kans.  
4 LS-2311 Piedmont av Bkly 3383  
Crawford, James McNeil Antioch  
4 Agr-2614 Dwight way Bkly 1276  
Crawford, Lindsay Alexander Oakland  
2 Agr-226 Lakeshore blvd, O Mer 3664  
Creity, Edmund Lewis Berkeley  
1 Chem-1039 Folger av Bkly 7212  
Crellin, Florence Oakland  
1 LS-2725 Channing way Bkly 7950  
Cremers, Carolyn Oakland  
13 LS-1535 Wellington av, O Mer 3639  
Crenshaw, Helen San Diego  
2 LS-2723 Durant av Bkly 9531  
Cribari, Louis Antonio San Jose  
4 LS and 1 Med-2632 Durant av Bkly 5137  
Crispin, Vera Emily Modesto  
3 LS (H Ger)-2400 Piedmont av Bkly 5224  
Crittenden, Chester Seymour Santa Barbara  
2 Agr-2627 Ridge rd Bkly 2541  
Crittenden, Laura Terese San Diego  
2 Agr-Highland pl and Ridge rd  
Croce, Francisco Martin Mendoza, Argentina  
3 Agr-University Farm, Davis  
\*Crofts, Dorothy Berkeley  
4 LS-2930 Magnolia st Bkly 7823  
Crofts, Eleanor Berkeley  
1 LS-2930 Magnolia st Bkly 7823  
Crook, Raymond Williams San Francisco  
4 Com-260 Rose st, S F Mkt 9294  
Cross, Elsie Hilton Oakland  
13 LS-1485 Alice st, O Oakd 3972



- Crotty, Homer Daniel                      Oakland  
 \*1 LS PreL-1439 Sixteenth av, O  
 Crouch, Joseph Wesley                      Selma  
 1s Agr-2174 University av              Bkly 1037  
 Crow, John Bradford                      Berkeley  
 4 LS-2726 Hillegass av                      Bkly 1526  
 Crow, Sheldon Braly                      Berkeley  
 2 Min-2726 Hillegass av                      Bkly 1526  
 Crowell, Ramon David                      Berkeley  
 3 Chem-2334 Carlton st              Bkly 2478W  
 Crowley, Arthur Lewis                      Visalia  
 \*1 Agr-2617 Hillegass av                      Bkly 104  
 Crowley, Dennis James Hyacinth              Port Costa  
 4 LS-Port Costa  
 Crowley, Leo Francis                      San Francisco  
 2 LS PreL-1467 Green st, S F  
 Croser, Ruth Elizabeth                      Alamo  
 1 LS-Alamo  
 Cruess, Ruth Emily                      Berkeley  
 1 LS-1614 Bonita av  
 Crutchett, Leonora Wilhelmina              Alameda  
 1 LS-2111 Grant st  
 Cryder, Anna Mary                      Tyrone, Pa.  
 2 LS-1921 Haste st  
 Crystal, Donald Blake                      Vacaville  
 1 Com-2330 College av                      Bkly 5098  
 Cuffe, Thomas Edwin                      San Rafael  
 1 Mec-2222 Bancroft way  
 Cull, Ursula Constance                      San Francisco  
 2 LS-2777 Twenty-fourth st, S F  
 Culvyhouse, Edwin John                      Fresno  
 2 LS PreM-2431 Dwight way                      Bkly 5587J  
 Cumberpatch, James Thorburn              Berkeley  
 1 Com-2413 Hilgard av                      Bkly 8520W  
 Cummings, Franklin                      Fort Milley  
 2 LS-2531 Hearst av                      Bkly 708  
 Cummings, Gale Taylor                      Lincoln, Nebr.  
 \*2 LS PreL-2811 Piedmont av  
 Cummings, Wilson S.                      Santa Paula  
 1 LS PreL-2520 Durant av                      Bkly 1675  
 Cummings, Winnifred Salt Lake City, Utah  
 4 LS-2321 Bancroft way                      Bkly 1765  
 Cuneo, Josephine Genevieve              San Francisco  
 3 LS-721 Bush st, S F                      Dgls 2991  
 Cunningham, George Magee                      Berkeley  
 3 CE-2536 College av                      Bkly 1974  
 Cunningham, Grant                      Turlock  
 3 Mec-2428 College av                      Bkly 4748  
 Cunningham, Margaret Elizabeth Le Grand  
 1 LS-2385 Haste st                      Bkly 8518W  
 Currens, James Edmund Chester              Easton  
 4 Mec-2217 Ellsworth st                      Bkly 6822J  
 Curtis, Eleanor Gray                      Covina  
 1 LS-2627 Hearst av                      Bkly 3229  
 Curtis, Marie Elyce                      Pasadena  
 2 LS-2542 Durant av                      Bkly 3873  
 Cushing, Eloise Bostwick                      Oakland  
 4 LS and 1 Juris-563 Thirtieth st, O  
 Cushing, Hazel Maude                      Oakland 8845  
 Princeton, Ill.  
 Cuthbert, Fern Ethel                      Bkly 2075  
 2 LS-1019 Sixty-first st, O              Oakland  
 Cutler, Cone Rhea                      Pied 1988W  
 2 LS-2615 Parker st                      Butte, Mont.  
 Cutler, Evaline Pearl                      Bkly 2940W  
 3 LS-2431 Dwight way                      Los Angeles  
 Cutler, J. Floyd                      Bkly 5587J  
 Visalia  
 3 Agr-University Farm, Davis  
 Cutter, Curtis Harold                      Sacramento  
 3 Com-2400 Bancroft way                      Bkly 78  
 Cuttle, Kenneth Osborne                      Riverside  
 \*4 LS-2647 Durant av                      Bkly 102  
 Daggett, Myra Anna  
 2 LS-1836 Cedar st                      Bkly 6698W  
 Dahlem, Earle Clifford                      Uplands  
 3 Com-2404 Bancroft way                      Bkly 6428  
 Dahlquist, Thomas Willford  
 Salt Lake City, Utah  
 4 LS-2646 Dwight way                      Bkly 4104  
 Dake, Eunice Margaret                      San Francisco  
 \*1 Com-2524 LeConte av                      Bkly 867W  
 Dalager, Rudolph Levin                      Railroad Flat  
 \*3 LS-2148 Center st  
 Daley, Helen Inez                      San Bernardino  
 3 LS-2542 Durant av                      Bkly 8873  
 Daley, John Peter                      Gilroy  
 3 CE-2701 Hearst av                      Bkly 2421  
 Daley, Nelle Katherine                      Gilroy  
 2 LS-1480 Spruce st                      Bkly 2378J  
 \*Daley, Robert Ingersol                      Gilroy  
 5 LS-2701 Hearst av                      Bkly 2421  
 Dallas, Vera                      Modesto  
 1 LS-6124 Telegraph av, O              Pied 6968W  
 Dallman, Ella Grace                      Big Timber, Mont.  
 2 LS-2646 Hillegass av                      Bkly 4848W  
 Daly, Anne Varian                      Oakland  
 2 LS-2848 Telegraph av                      Bkly 8554J  
 Damianakes, Cleo Theodora                      Oakland  
 4 LS (H Gr Art)-327 Lenox av, O  
 Lksd 8114  
 Damianakes, Marie Penelope                      Oakland  
 3 LS-327 Lenox av, O                      Lksd 8114  
 Damner, Maurice Arthur                      San Francisco  
 \*1 LS PreL-732 Lyon st, S F              West 5779  
 Dana, Helen Emelyn                      San Diego  
 3 LS (H Hshd Sci)-2536 Bancroft way  
 Bkly 7997  
 Dana, Mary Alice                      San Diego  
 3 LS-2536 Bancroft way  
 Dana, Mary Evelyn                      San Diego  
 \*1 LS-2536 Bancroft way  
 Dana, Robert Hillery                      San Diego  
 3 Agr-2536 Bancroft way                      Bkly 7997  
 Dana, Ruth Elizabeth                      San Diego  
 2 LS-2536 Bancroft way                      Bkly 7997

D'Ancona, Sara Russell	San Francisco	Davis, David	Riverside
2 LS-2725 Channing way	Bkly 7950	2 Agr-2162 Center st	Bkly 2875
Dang, Luke Tuck	Berkeley	Davis, Dorothy Park	Berkeley
2a LS-2400 Bancroft way	Bkly 78	2 LS-2723 Benvenue av	Bkly 2046J
Dangberg, Grace Melissa	Minden, Nev.	Davis, Earl Adams	Lindsay
3 LS-2958 Russell st	Bkly 1408	2s Com-2627 Ridge rd	Bkly 2541
Daniel, Bernice Vivian	Petaluma	Davis, Earl Daniel	Pasadena
1 LS-2624 Virginia st	Bkly 8663	3 Agr-University Farm, Davis	
Daniels, Alice Dorothy	Riverside	Davis, George E. Williams	Berkeley
3 LS-2508 Haste st	Bkly 2075	1 LS-2519 Ridge rd	Bkly 1416
Daniels, Camilla Chapin	Chicago, Ill.	Davis, George William	Portland, Ore.
1 LS-1425 Harrison st, O	Lksd 1900	3 Com-1117 Ellis st, S F	Fmr 2323
Daniels, Doris Alden	Monrovia	Davis, Gladys Joanna	Fallon, Nev.
4 LS (H Hshld Sci)-1809 Euclid av		3 Chem-2506 College av	Bkly 4387
	Bkly 1615	Davis, Harry William	San Francisco
Daniels, John Quincy Adams	Portland, Ore.	1 LS PreM-1005 Page st, S F	8 F Park 4988
1 LS PreM-Hotel Claremont	Bkly 9300	Davis, Helen Margaret	Berkeley
Darbinian, Sisak Hagop	Fresno	4 LS-2644 Dwight way	Bkly 2589
2 Com-2405 Fulton st	Bkly 8885J	Davis, Helen Virginia	Berkeley
Darch, Marguerite	Berkeley	3 LS-2425 College av	Bkly 1165
2 LS-2417 Bancroft way	Bkly 3720W	Davis, Herbert Carroll	Antelope
Darling, Ralph McIntire	Los Angeles	1 CE-2609 LeConte av	Bkly 8836W
1 LS PreL-2524 Piedmont av		Davis, Hilma	Berkeley
	Bkly 8467J	1 LS-2323 Bowditch st	Bkly 1543
Darnell, Herschell Ray	Brawley	*Davis, Homer Bryan	Berkeley
1 Min-77 Panoramic way		4 Agr-Orinda Park	
Darnell, William George	Brawley	Davis, Marv F. Caulkins	Ceres
2 Agr-2728 Bancroft way	Bkly 1392	4 LS-2208 Chapel st	
Darrow, Verna May	Sacramento	Davis, Nelson Caryl	Ceres
4 LS (H Celtic)-648 Chetwood av, O		1 Med-2203 Chapel st	
Daube, Jerome Ferville	Chicago, Ill.	Davis, Reginald Sidney	Glenn
3 LS PreL-2521 College av	Bkly 3025	3 LS PreA-1707 Euclid av	Bkly 4020
Daugherty, Corena Emogene	Berkeley	Davis, Rosalie	South Pasadena
3 LS-2793 Benvenue av	Bkly 5274W	2 LS-1309 Spruce st	Bkly 1006J
Daugherty, Lyllis Aileen	Berkeley	Davis, Ruth Helen	Riverside
1 LS-2793 Benvenue av	Bkly 5274W	1s LS-2327 Bancroft way	Bkly 5816
Davi, Horace Denan	Pittsburg	Davis, Vernon Ray	Kerman
12 Chem-2427 Durant av	Bkly 2777W	1 Agr-2721 Channing way	Bkly 1577
Davidson, Clinton James	Chula Vista	Davis, Virgil B.	Los Angeles
3 Chem-2310 Bowditch st	Bkly 8325W	2 Agr-2410 Dana st	Bkly 7047W
Davidson, Helen	Cotati	Davis, William Harry	Los Gatos
1 LS-1507 Grant st	Bkly 982	1 Agr-2519 Ridge rd	
Davidson, Marjorie Louise	Los Angeles	Davis, William Rude	Oakland
2 LS-2736 Haste st	Bkly 8680	2 LS-404 Twenty-ninth st, O	Oakd 7282
Davidson, Sidney Harold	Los Angeles	Davison, Archie Ballard	Colusa
4 Agr-2605 Durant av	Bkly 552	1 LS PreM-2601 Channing way	
Davies, Audrey	Berkeley		Bkly 5904
2 LS-102 El Camino Real	Bkly 4877	Davison, Berlinda	San Francisco
Davis, Alice	Oakland, Ore.	2 LS-1942 Bush st, S F	Fmr 2319
1 LS-1412 Ninth av, O	Mer 1335	Davison, Judiah Kuhl	Berkeley
Davis, Anna Margarette	Weaverville	4 Mec-2242 Polk st, S F	Popt 3425
3 LS-1715 LeRoy av	Bkly 2351	Davison, Stuart Toussaint	San Francisco
Davis, Bessie Lota	Selma	2 LS PreM-1942 Bush st, S F	
1 LS-2531 Ridge rd	Bkly 6485		Fmr 2318
Davis, Charlotte McClung	Pomona	Davison, William Walter	Hollywood
2 LS-2417 LeConte av		1 Mec-1726 Euclid av	Bkly 6746
Davis, Cyril	San Francisco	Dawe, Percy	Salem, Ore.
4 Mec-25 Seventeenth av, S F	Pac 3687	2 LS-2070 University av	Bkly 7948J
Davis, Daryl Dean	Vacaville	Dawson, Margaret Ellen	Spokane, Wash
2 Mec-1827 Ward st		3 LS-Claremont Manor, O	Pied 449W

- Day, Charles W. Dinuba  
2 Com-2627 Ridge rd Bkly 2541
- Day, Frances Dorothy Los Angeles  
4 LS-2226 Chapel st Bkly 879
- Day, Gertrude Briggs San Diego  
2 LS-2721 Haste st Bkly 8800
- Day, John Briggs San Diego  
3 LS-2425 LeConte av Bkly 4334
- Dean, Dorothy Sutter  
2 LS-2522 Dwight way Bkly 6646J
- Deane, John Russell San Francisco  
3 Com-2607 Hearst av Bkly 5913
- Deane, Joseph Tenison San Francisco  
3 Min-2425 LeConte av Bkly 4334
- Deb, Jnanendra Krishna Calcutta, India  
4 Com-2036 Center st Bkly 2503J
- Debeau, Maurice A. Russia  
2 Mec-2022 Berkeley way  
de Bernadine, Tillie Santa Rosa  
4 LS-2731 Dwight way Bkly 6865W
- De Celle, Katherine Woodland  
1 LS-2600 Etna st Bkly 7229
- Decker, Jessie-Lee Fairfax Magnolia, Ark.  
1s LS-2417 LeConte av Bkly 6650
- DeCoudres, Charles Greene Long Beach  
1 Com-2501 Ridge rd Bkly 1335
- de Freitas, Edmund Oakland  
1 LS PreL-418 E Nineteenth st, O Mer 3800
- de Fremerv, Paul William Berkeley  
3 LS-2728 Benvenue av Bkly 4317
- Degen, William August Alameda  
4 Agr-1718 St. Charles st, A Ala 4297J
- Deimel, Henry Lito, Jr. San Francisco  
1 LS PreL-2321 Buchanan st, S F Flmr 149
- de Kay, Mary Valerie Berkeley  
1 LS-2027 Delaware st Bkly 3712
- Delamere, Beatrice Berkeley  
1s LS-2612 Piedmont av Bkly 6042
- Delamere, Catherine Berkeley  
2 LS-2612 Piedmont av Bkly 6042
- Delamere, Granville Sinclair Berkeley  
4 LS and 1 Med-2612 Piedmont av Bkly 6042
- Delaney, Mildred Los Angeles  
1 LS-2524 LeConte av Bkly 2531
- DeLap, Octavia Dell Klamath Falls, Ore.  
1 LS-2519 Hillegass av Bkly 477
- de Lappe, Russell Guerne Modesto  
2 LS PreA-2610 Durant av Bkly 7804
- Deiger, Fred C. San Francisco  
1s LS-2620 Bancroft way Bkly 888
- Delins, Irma Alameda  
1 LS-2057 Alameda av, A Ala 1925
- Dellona, Justo Duran San Francisco  
1 LS PreL-1822 University av
- Delprat, Guillaume Daniel Philadelphia, Pa.  
3 LS PreM-2827 Bancroft way Bkly 7712W
- Delprat, Madeline P. Melbourne, Australia  
1 LS-2827 Bancroft way Bkly 7712W
- Demarest, Lillian Berkeley  
3 LS-1710 Walnut st Bkly 5162W
- Deming, Dorothy East Auburn  
2 LS-2417 LeConte av Bkly 5650
- \*Deming, Jean Marjorie East Auburn  
4 LS-2627 Hearst av Bkly 3229
- DeMund, Lester Darrell Phoenix, Ariz.  
1s Com-2332 College av Bkly 6689
- De Muth, Martin Smith San Francisco  
1 LS-1485 Vallejo st, S F Pspt 4359
- Denbo, John Marshall Lafayette, La.  
4 Min-2519 Ridge rd Bkly 1416
- Denham, Florence Mary Berkeley  
2 LS-2419 Prince st Bkly 8116J
- Denison, Adrienne Margaret Oakland  
1 LS-332 Hobart st, O Oakd 5685
- Denison, Alan Mervv Oakland  
2 LS PreM-332 Hobart st, O Oakd 5685
- Denman, Katharine May Berkeley  
2 LS-2818 Russell st Bkly 4550
- Denman, Lois Margaret Berkeley  
3 LS-2818 Russell st Bkly 4550
- Dennos, William Ray Healdsburg  
2 LS-2439 Dwight way Bkly 4160J
- Dennet, Myrtle Valentine San Francisco  
4 LS-343A San Jose av, S F Valen 1514
- Dennis, Wilbur Owen Porterville  
1 Com-2410a Bancroft way Bkly 2479
- Denton, Vera Elizabeth Vacaville  
3 LS-2695 Cedar st Bkly 538
- Derbv, Ray Lyle Venice  
1 CE-Oxford apta Bkly 9322J
- De Remer, Samuel Teel Los Angeles  
2 LS PreA-2610 Durant av Bkly 7804
- Dermont, Margarette Adah Williams, Ariz.  
4 LS-2725 Channing way Bkly 7950
- Deruchie, Ellen Frances Oakland  
2 LS-1968 Thirty-fifth av, O Frvl 2186J
- Deskev, Donald Sidney Los Angeles  
2 LS PreA-2428 College av Bkly 4748
- Deamond, John Stephen Burney  
3 Chem-2312 College av
- Desmond, Matthew Francis Burney  
3 LS PreM-2312 College av
- Dessauer, Walter Oscar San Francisco  
3 Agr-158 Eighth av, S F Pac 7287
- Destruel, Laura Christine Healdsburg  
2 LS-2416 1/2 Durant av Bkly 8537
- DeTar, Vern William Oroqui  
3 Agr-2211 Ellsworth st Bkly 5496W
- Detling, Roy Ellsworth Gridley  
1 LS-77 Panoramic way
- Detov, Charles L. Fresno  
2 LS PreL-2522 Ridge rd Bkly 5950
- Detwiler, Harold Putnam El Paso, Tex.  
4 Agr-2616 Virginia st Bkly 6716
- Deutch, Frederick San Leandro  
1s LS PreL-540 Saunders st, S L

D'Evelyn, Wright Ethelbert	Alameda	Dinsdale, Sophia	Woodland
4 Min-2529 Hearst av	Bkly 40	4 LS-2711 Virginia st	Bkly 4606J
de Veuve, Laura	Berkeley	Dinamore, Marguerita Grace	Inglewood
1 LS-1845 Bancroft way	Bkly 2042	2 LS-2417 LeConte av	Bkly 5650
Devine, Henry Joseph	Sacramento	Dinamore, William	Marysville
2s LS PreA-2427 Durant av	Bkly 4521J	4 LS-2316 Bowditch st	Bkly 6504
Dewing, Frank	San Francisco	Diss, Addison Starr	San Fernando
1s Agr-35 Palm av, S F	Pac 5243	3 LS PreL-Oxford apts	Bkly 2385W
de Witt, Alice Dorothea	San Jose	Diss, Rebecca Ellen	San Fernando
3 Com-2542 Durant av	Bkly 3873	11 LS-2304 Fulton st	Bkly 9517J
De Witt, Donald Chase	Antioch	Ditty, Cecil Amos	Pomona
1 LS-324 Forest st, O	Pied 4872J	4 Com-2627 Ridge rd	Bkly 8247
De Witt, Melba	Antioch	Dixon, Alice S.	San Diego
1 LS-324 Forest st, O	Pied 4872J	2 LS-2330 Haste st	Bkly 423
Dexter, Charles Crossen	Vallejo	Dixon, Carl Torrey	San Diego
1 LS-2620 Bancroft way	Bkly 888	4 Mec-2605 Durant av	Bkly 552
Dexter, Eleanor May	Lodi	Dixon, Grace Lucille	Michigan Bluff
2 LS-2713 Haste st	Bkly 2148	3 LS-2749 Dwight way	Bkly 204
Dexter, Harold	Alameda	Doan, Irma Alma	Stockton
1 Com-1603 Santa Clara av, A Ala 2018		1 LS-2627 Hearst av	Bkly 3229
De Young, Agnes Belle	Lodi	Doan, Lamira Agnes	Gilroy
2 LS-2713 Haste st	Bkly 2148	12 LS-2728 Regent st	Bkly 1999
De Young, Isabel May	Acampo	Dobbins, Ruth Roberta	Colusa
1 LS PreM-2713 Haste st	Bkly 2148	2 LS-2508 Haste st	Bkly 2075
Diamond, Louis	San Francisco	Dodds, Clifford Ten Eyck	San Diego
1 Agr-1631 Alabama st, S F	Valen 8137	2 Agr-2344 Eunice st	
Dibble, Frances	Berkeley	Dodds, Hiram Elbert	Bakersfield
2 LS-2738 Prince st	Bkly 1788	11 LS PreL-2318 Telegraph av	Bkly 5964
Dick, Philip J.	Fresno	Dodge, Norma Alida	Eureka
8 LS PreM-2217 Ellsworth st	Bkly 6822J	11 LS-1526 Walnut st	Bkly 7263W
Dickie, Leland Converse	Lemoore	Dodge, Van Duvn Adalbert	San Rafael
2 Mec-2410b Bancroft way	Bkly 2479	3 Com-2510 Channing way	Bkly 5414J
Dickson, Alice Ray	San Rafael	Doggett, Ruth Wedgwood	Springfield, Mass.
1 LS-2401 Durant av	Bkly 6681	2 LS-2710 Channing way	Bkly 9520
Dickson, Eleanor	Loleta	Dominique, Ellen Augusta Erika	Santa Barbara
2 LS-2627 Hearst av	Bkly 4009	4 LS-2531 Ridge rd	Bkly 6485
Dieckmann, Marie Consuelo	Oakland	Donahue, Frances Louise	Willows
13 LS-1076 Sixtieth st, O	Pied 1821	11 LS-2400 Shattuck Hotel	Bkly 7300
Diether, Ray Orren	Hollywood	Donald, Robert Tasker	Baker, Ore.
4 LS-2227 Dana st	Bkly 1652W	3 Min-2345 College av	Bkly 62
Dietrich, Monica Rosa	Pasadena	Donaldson, Robert Nelson	Berkeley
1 LS-2811 College av	Bkly 6915J	4 Chem-1826 Vine st	Bkly 634
Diggs, Carrie Cunningham	Selma, Ala.	Donelson, Richard Nelson	San Francisco
1s LS-2435 College av	Bkly 3629J	1 LS-19 Henry st, S F	
Dillman, Pauline	Sacramento	Dong, Harry Earl	Sacramento
4 LS-2723 Durant av	Bkly 9531	2 LS PreL-2504 Regent st	Bkly 3893J
Dimm, Charles Stanley	Pt. Richmond	Donnellan, John Thomas	Los Angeles
4 Com-2601 Durant av	Bkly 23	3 Com-2601 Bancroft way	Bkly 78
Dimock, Harold Edwin	Lompoc	Donnels, Horace Carson	Berkeley
3 Com-2627 Ridge rd	Bkly 2541	13 LS-2325 Blake st	Bkly 827
Dingley, Carrie Bowen	Berkeley	Donohue, Kathryn	Sausalito
3 LS-1735 Allston way	Bkly 6872W	1s Com-2417 Bancroft way	
Dingley, Elsie Adelaide	Oakland	Donovan, Frances Genevieve	San Francisco
2 LS-2930 E Fifteenth st, O	Frvl 1479W	1 LS-940 Haight st, S F	Mkrt 3316
Dingley, Kathryn Laura	Oakland	Donovan, Nadine Guerne	Santa Rosa
1 LS-2930 E Fifteenth st, O	Frvl 1479W	1 LS-2721 Haste st	Bkly 8800
Dinkelspiel, Amy	Oakland	Donovan, Thelma Evelyn	Santa Rosa
3 LS-624 Walsworth av, O	Pied 3941W	2 LS-2721 Haste st	Bkly 8800
Dinkelspiel, Martin Jerrold	San Francisco		
1 LS PreL-2520b Ridge rd	Bkly 5845		

- Doolittle, Anna-Gay San Diego  
1 LS-2721 Haste st Bkly 8800
- Doolittle, James Harold Los Angeles  
3 Min-2618 Durant av Bkly 8858
- Doran, Leonora Hanford  
3 LS-2429 Channing way Bkly 4648
- Doran, Louise Agnes Healdsburg  
4 LS-2006 Cedar st Bkly 8284W
- Dormody, Hugh Frederick Placerville  
4 LS and 1 Med-2880 College av Bkly 5098
- Dorn, Beatrice Ellen San Francisco  
1 LS PreM-562 Tenth av, S F Pac 5486
- Dorn, John Harrold San Francisco  
1 Com PreL-2601 Durant av Bkly 28
- Dorsey, Copeland Victor Grass Valley  
1 Mec-1732 Carlton st
- Dorton, Robert Earle Kansas City, Mo.  
4 LS-2639 Channing way
- Dotson, Helenruth Los Angeles  
12 LS-2333 Channing way Bkly 1728
- Doud, Clara Margaret Oakland  
2 LS-715 Apgar st, O
- Dougherty, Neil Francis Los Angeles  
14 Agr-2501 Ridge rd Bkly 1335
- Doughty, Ralph Burgess Berkeley  
2 Agr-3039 Deakin st Bkly 565
- Douglas, Elizabeth Ellen Berkeley  
4 LS-1609 Channing way
- Douglas, Henrietta Lee Red Bluff  
4 LS-Oxford apts Bkly 2385W
- Douglas, William Crumbaugh Red Bluff  
4 Com-Oxford apts Bkly 2385W
- Dow, Clarence Gatchell Lodi  
4 Mec-2332 College av Bkly 1134
- Dow, Irving Oakland  
14 Agr-University Farm, Davis
- Dow, Neal Berkeley  
14 Com-2276 Shattuck av Bkly 8800
- Dowdell, Joseph Aloysius Sausalito  
3 Agr-1641 Oxford st Bkly 6641J
- Downer, Marlon Clarice Modesto  
4 LS (H Hist)-2709 Channing way Bkly 8528
- Downie, Mary Carmichael Berkeley  
13 LS-2709 Channing way Bkly 8528
- Downie, Octavia Berkeley  
4 LS (H Span)-2709 Channing way Bkly 8528
- Downing, Agnes Frances Berkeley  
1 LS-2704 Channing way Bkly 8852
- Downs, Helen Sutter Creek  
1 LS-2524 LeConte av Bkly 2531
- Dove, Franklin Bergson Berkeley  
1 LS-1623 Scenic av Bkly 876
- Drake, Claude William Alhambra  
4 Mec-1734 Walnut st
- Drake, Ella Emilia Elsinore  
1s LS-2246 Atherton st
- Draper, Hal Daniel Colorado Springs, Colo.  
3 LS (H Chem)-2821 Stuart st Bkly 6571J
- Draper, James Shields Colorado Springs, Colo.  
4 Mec-2400 College av Bkly 7714W
- Draveur, Aimée Auger San Francisco  
1a LS-1145 Hayes st, S F Park 5264
- Dreiske, Alice Virginia Hollywood  
1 LS-2434 Piedmont av Bkly 8341
- Dresden, Esther San Francisco  
2 LS-2138 McKinley av
- Dresden, Ione Lillian Los Angeles  
3 LS-Treehaven apts Bkly 8841J
- Dresel, Gustav Sonoma  
1 Mec-3827 Clay st, S F Pac 8683
- Dresser, Eva Janet Berkeley  
1 LS-3035 Deakin st Bkly 7822
- Dresser, Evan Cook Modesto  
3 LS PreL-3035 Deakin st Bkly 7822
- Drew, Frankie May Selma  
11 LS-1739 Euclid av Bkly 498
- Drew, James Edward Oakland  
1 LS PreL-1051 E Thirty-third st, O Mer 1275
- Drobish, Eileen Lois Riverside  
3 LS-2435 Hilgard av Bkly 6406
- Drobish, Harry Everett Riverside  
14 Agr-2701 Hearst av Bkly 2421
- Drury, Muriel Berkeley  
3 LS (H French)-1520 Euclid av Bkly 4606W
- Dubovsky, Bertha Judith Oakland  
1s LS-492 Stow av, O Mer 4167
- Dubovskv, Flora Esther Oakland  
1 LS-492 Stow av, O Mer 4167
- Dubovsky, Frederick Oakland  
2s Juris-492 Stow av, O Mer 4167
- Dudley, Rees Thompson Santa Clara  
1 LS-2626 Benvenue av Bkly 4895W
- Duff, Mildred Price Ione  
11 LS-449 Fifty-ninth st, O Pied 7288W
- Duffey, Vincent Edward Berkeley  
2s Agr-2332 College av Bkly 1134
- Duffy, Hugh Lawrence Oakland  
1s CE-St. Mary's College, O
- Duhring, John Herman Sonoma  
1 LS PreM-2251 College av Bkly 9107
- Duhring, Ruth Kinhead Berkeley  
13 LS-2821 Hillgass av Bkly 6793W
- Dumbill, Tessie Margaret Fort Bragg  
2 LS-45 Plaza dr Bkly 7176
- Duncan, Daniel McLean Oakland  
3 Min-1619 Walnut st Bkly 2611J
- Dungan, Mamie Virginia Exeter  
1 LS-1643 Euclid av Bkly 2094J
- Dunlap, George Herbert Newark, Ohio  
2 LS PreL-2607 Hearst av Bkly 5918
- Dunn, Albert Gray Alameda  
1 LS PreL-1220 Park av, A Ala 679

Dunn, Albert Laurence	Long Beach	Eckart, Miriam	Marysville
4 LS-2625 Hearst av	Bkly 7614	4 LS (H Ger)-2314 Hilgard av	Bkly 4033J
Dunn, Elizabeth Maxwell	San Francisco	Eddy, Charlotte Mowbray	Los Angeles
1 LS-88 Frederick st, S F	Park 1538	21s LS-Euclid apta	
Dunn, Lemuel Jackson	Concord	Edgar, Cecil Eli	Sanger
2 Com-Concord		4 LS and 1 Juris-2515 LeConte av	Bkly 6994
Dunn, Stephen E.	Modesto	Edgar, Herbert Lincoln	Berkeley
5 Mec-2333 Channing way	Bkly 6640	1 Com-2623 Cherry st	Bkly 6796J
Dunnigan, John Ross	San Francisco	Edgar, Paul Wesley	Pomona
21 Com-703 Broderick st, S F West	8962	3 Mec-2222 Bancroft way	Bkly 6475
Dunshee, Carroll Francis	Santa Barbara	Edmonds, William Hammond	Upper Lake
3 Agr-University Farm, Davis		23 Agr-University Farm, Davis	
Dunshee, John Harvey	Moorpark	Edson, Earl Wilder	Fortuna
1 LS PreM-2428 College av	Bkly 4748	14 Mec-2614 Dwight way	Bkly 1276
Durbrow, Elinor	San Francisco	Edson, Phillips J.	Los Angeles
3 LS (H Music)-2328 Bowditch st	Bkly 6201J	1 LS PreM-Glengarry apta	Bkly 7164
Dusenbery, H. Syril	San Francisco	Edson, Winona de Clyver	Berkeley
4 Mec-Glengary apta	Bkly 7667	1s LS-2590 Buena Vista way	Bkly 824
Dutton, Fletcher Holland	San Rafael	Edwards, Abby White	Santa Barbara
3 Com-2251 College av	Bkly 9107	23 LS-2723 Durant av	Bkly 9531
Dyar, Dorothy	Washington, D. C.	Edwards, Alta Eugenia	Crockett
2 LS-2711 Regent st	Bkly 9022	3 LS (H Ger)-2519 Hillegass av	Bkly 477
Dyer, Ruth Frances	Berkeley	Edwards, Charles Stockton	Los Angeles
3 Agr-2119 Kittridge st	Bkly 2447J	2 LS-2428 Allston way	Bkly 6361W
Dyess, Ruby Lee	Belton, Texas	Edwards, Evelyn Bernice	Crockett
3 LS-1501 Sonoma av	Bkly 2864	2 LS-2334 Bowditch st	Bkly 1354W
Dykes, Leonard Roland	Mesa, Ariz.	Edwards, Eldred Earl	Oakland
3 LS PreL-2010 Durant av	Bkly 3940	13 Mec-401 Avon st, O	Pied 1990J
Eade, Laurence Joseph	Berkeley	Edwards, Ida Persis	Pasadena
2 Com-2038 Bancroft way	Bkly 6830W	1 LS-2435 College av	Bkly 5557
Eager, Maybell Stone	Fairfield	Edwards, John Robert	Los Angeles
1 LS-2229 Chapel st	Bkly 1642	3 LS-2428 Allston way	Bkly 6361W
Eakin, Margaret Adelaide	San Francisco	*Edwards, Logan Combs	Visalia
2 LS-2700 College av	Bkly 1442J	4 LS and 1 Juris-2215½ Ellsworth st	Bkly 1468
Earl, Elinor Hayes	Oakland	Edwards, Marjorie Gwendoline	Pasadena
14 LS PreA-2914 McClure st, O	Oakd 2494	4 LS-1589 LeRoy av	Bkly 8387
East, Ethel Marie	Alton	Edwards, Neville Goodrich	San Jose
2 LS-2033 Delaware st	Bkly 6619	1 Agr-2018 Virginia st	Bkly 3112J
Eastev, Lillian Estelle	San Jose	Edwards, Paul Duncan	Visalia
12 LS-2624 Virginia st	Bkly 3663	4 LS-2219 Ellsworth st	Bkly 1468J
Easton, Frank Adelbert	Bakersfield	Efinger, Caroline Louise	Honolulu, T. H.
14 Mec-2425 LeConte av	Bkly 4334	3 LS-2508 Ridge rd	Bkly 979J
Easton, Robert Dean	Sacramento	Eggleston, Lilian Percival	Hollywood
4 Mec-2519 Ridge rd	Bkly 1416	3 LS-2510 Buena Vista way	Bkly 2890W
Eastwood, Alice Ida	Oxnard	Ehlers, Anna Eliza	Whittier
3 LS (H Math)-2401 Durant av	Bkly 6681	4 LS-2434 Piedmont av	Bkly 8241
Eastwood, Marguerite Ella	Oakland	Eib, Charles	Lodi
2 LS-706 Mandana blvd, O	Oakd 4843	14 LS and 1 Juris-2131 Kittridge st	Bkly 5657W
Ebert, Fred A.	Los Angeles	Eimer, Austin R.	Alameda
3 LS-2714 Durant av	Bkly 6694W	4 CE-2607 Hearst av	Bkly 5913
Eberts, Margaret	Oakland	Eischen, William	Montebello
1 LS-624 Mariposa av, O	Pied 6439W	1 Mec-2642 Bancroft way	
Eberts, M. Carol	Oakland	Eisner, Vera	San Francisco
4 LS (H Engl)-2710 Channing way	Bkly 9520	21 LS-1505 Masonic av, S F	Park 7008
Eby, Elmo Cartwright	Sacramento		
3 LS PreL-2400 Durant av	Bkly 7954		

# Undergraduate Students

103

Elam, Edwin Madison	Berkeley	Elmore, John Whitney	Santa Rosa
4 LS and 1 Juris-2620 Bancroft way	Bkly 888	8 Chem (H)-1912 Grove st	Los Angeles
Elden, Elois Felicia	Berkeley	Elms, Alberta	Bkly 6681
*2 LS-1405 Grant st	Bkly 4394W	1 LS-2037 Francisco st	Concord
Elder, Charles Benjamin	Berkeley	1 LS PreL-2521 Hearst av	Bkly 708
2 LS PreL-2820 Webster st	Bkly 2713	Embury, Philip Albert	Berkeley
Eldred, Winifred	San Diego	3a Min-1544 Milvia st	Bkly 5864W
4 LS-1826 Spruce st	Bkly 5665J	Emerson, Josephine Roxanna	Pasadena
Ellefson, Lillian Jordan	Rawlins, Wyo.	*2a LS-Berkeley Inn	Bkly 6370
4 LS-2704 Haste st		Emery, William Valentine	Watsonville
Ellen, Donna Belle	Berkeley	1 Chem-2123 Parker st	
1 LS-1614 Scenic av	Bkly 5493	Enderlv, Richard Curtis	Los Angeles
Ellerbeck, Vivien	Salt Lake City, Utah	2 LS-2620 Bancroft way	Bkly 888
*4 LS-2710 Channing way	Bkly 5920	Endo, Koshiro	Sendai, Japan
Elliott, Alice Bunnell	Oakland	4 Agr-2308 Virginia st	Bkly 6441
4 LS-2901 Telegraph av, O	Lksd 1588	Enlow, Ruth Christine	San Francisco
Elliott, Charles William	San Francisco	2 LS-1840 Franklin st, S F	
1 CE-3366 Nineteenth st, S F	Men 8024	Ensign, Esta W.	Brigham City, Utah
Elliott, Elizabeth Frances	Berkeley	1 LS-2320 Bancroft way	Bkly 1358J
4 LS-1722 Blake st	Bkly 6631	Epperson, Sarah Scott	Clarksville, Tenn.
Elliott, Frank Thomas	Visalia	*1 LS-2420 College av	Bkly 8391
4 Com-2620 Bancroft way	Bkly 888	Epping, Dorothy	Hood River, Ore.
Elliott, Norman Almstead	San Francisco	4 LS-2710 Channing way	Bkly 9520
3 LS PreM-2522 Virginia st	Bkly 6616W	Epstein, Norman Niesen	Napa
Elliott, Raymond Campbell	Duarte	1 LS PreM-2416 College av	
*1 LS PreM-1711 Euclid av	Bkly 9306	Erickson, Adeline Lillian	Tarlock
Elliott, William Armstrong	Oxnard	2 LS-1422 Grove st, O	Lksd 2449
3 CE-2304 Telegraph av	Bkly 3428	Erickson, Fridtjof Carl	Oakland
Ellis, Daniel Eric	Los Angeles	2 Agr-1815 Highland pl	Bkly 1682
*5 LS and 2 Juris-2717 Hearst av		Erickson, Harold	Oakland
	Bkly 5770	*2 Com-109 Montecito av, O	Oakd 4404
Ellis, Grace	San Francisco	Erlwin, Edmund Alarich	Gardena
3 LS-Channing apts	Bkly 6393J	3 Agr-2590 Bancroft way	Bkly 2596W
Ellis, Gordon	Oakland	Ernst, Franklin Henry	Visalia
1 Agr-1014 Myrtle st, O	Oakd 7080	*2 Agr-2316 Bancroft way	
Ellis, Howard Coit	Oakland	Erwin, Mae A.	Bozeman, Mont.
3 LS PreL-1014 Myrtle st, O	Oakd 7080	3 LS-2519 Hillegass av	Bkly 477
Ellis, Marguerite Wynlee	Oakland	Eschen, Robert Minor	Alameda
2 LS-1014 Myrtle st, O	Oakd 7080	1 Agr-1303 Caroline st, A	Ala 172
Ellis, Marjorie Dana	Santa Ana	Escherich, Walter John	Los Angeles
*2 LS-1401 Arch st	Bkly 2283	3 LS PreA-1711 Euclid av	Bkly 9306
Ellis, Maude	Santa Monica	Essig, Frederick Monroe	Shively
3 LS-Channing apts	Bkly 6893J	4 LS (H Bot)-2226 Chapel st	Bkly 879
Ellis, Rav	Fallbrook	Estabrook, Mildred Wynta	Pacific Grove
3 Agr-2314 Channing way	Bkly 6041W	1 LS-2431 LeConte av	Bkly 3062
Ellis, Ruth Ione	Merced	Estill, Mary Howard	Tucson, Ariz.
1 LS-1739 Euclid av	Bkly 493	3 LS-2417 LeConte av	Bkly 5650
Ellis, William Alexander	Cottonwood	Etiennne, Myron Edward	San Francisco
*1a LS PreA-123 Lake st, O	Oakd 3291	2 Agr-2620 Bancroft way	Bkly 888
Ellison, George Russell	Oakland	Etter, Harold Pearson	Alameda
*1 LS PreL-569 Forty-first st, O		2 Mec-2522 Ridge rd	Bkly 5950
	Pied 1090W	Etter, Harry Havelock	Alameda
Ellsworth, Edward Bryant	Niles	2 LS PreM-2522 Ridge rd	Bkly 5950
2 LS PreL-2642 Bancroft way	Bkly 653	Eustolia, Sister Mary	Oakland
Ellsworth, Elmer Josiah	Hollywood	1 LS-College of Holy Names, O	Oakd 107
*3 LS-2334 Carlton st	Bkly 2478W		Woodland
Ellsworth, Evelyn Peters	Milwaukee, Wis.	Evans, John Manderson	Bkly 2918W
*1a LS-2614A Regent st		4 Agr-2909 Ashby av	Woodland
Ellsworth, Harriet	Niles	Evans, Kenneth R.	Woodland
1 LS-2506 College av	Bkly 4387	3 Agr-2422 Channing way	Bkly 8666

Evans, Leila Elisabeth	Ceres	Fastenau, Conrad D.	Puente
3 LS-1866 Tamalpais rd	Bkly 5720W	2 Mec-2427 Durant av	Bkly 4521J
Evans, Margaret Carlisle	Helena, Mont.	Faulkner, Olivetta	Aberdeen, Wa
2 LS-2500 Durant av	Bkly 1157W	4 LS-2723 Durant av	Bkly 9531
Evans, Marion	San Francisco	Faulkner, William Bernard, Jr.	Stockton
4 LS-2721 Channing way		1 LS PreM-2184 University av	Bkly 6502
Evans, Robert Hazelhurst	Oakland	Fayard, Jennie Louise	San Jose
2s LS-288 Athol av, O	Mer 1488	4 LS (H French)-2137 Virginia st	Bkly 5509W
*Eveleth, Dwight Edward	Berkeley	Faye, Isabel Bonnar	Berkeley
5 Com-1720 Carlton at	Bkly 6002W	12 LS-3060 Claremont av	Bkly 8775
Everett, Edward Willard	Nevada City	Fearing, Frank Smith	Seattle, Wa.
2 Mec-2632 Regent st	Bkly 6403W	11 LS-1748 Oxford st	
Everett, Henry Parke	Nevada City	Fearnley, Walter LeVeair	Portland, Ore.
2 Agr-2632 Regent st	Bkly 6403W	11 Com-2039 Shattuck av	Bkly 4929
Evers, Elizabeth Amanda	Visalia	Feddersohn, Peter	Puente
11 LS-1707 Euclid av	Bkly 4072	2 Agr-2445 Channing way	Bkly 7068J
Everton, Edgarda Katharine	Honolulu, T. H.	Fee, Marian Van Harlingen	San Diego
3 LS-2327 Bancroft way	Bkly 5816	1 LS-2627 Hearst av	Bkly 4000
Ewert, Lola	Woodland	Feigenbaum, B. Joseph	San Francisco
1 LS-2429 Channing way	Bkly 4648	11 LS PreL-2527 Channing way	Bkly 3121W
Fahden, Eleanor Alma	Calistoga	Feinberg, Julian	New York, N. Y.
1 LS-1517 Shattuck av	Bkly 8615	4 Min-2120 Kittredge st	Bkly 2090
Fabey, John Francis	Watsonville	Felchlin, Alois Hubert	Stockton
13 LS PreM-2281 1/2 Durant av	Bkly 1953W	4 LS-2345 College av	Bkly 62
Fain-Feldman, Yoel	San Francisco	Felix, Max	Santa Monica
11 LS-2235 Chapel st	Bkly 3196J	1 LS PreL-2318 Telegraph av	Bkly 5964
Fairbanks, Helena Kemp	Berkeley	Fellows, John Harvey	Pasadena
1 LS-1204 Tamalpais rd	Bkly 7486	2 Com-2420 Durant av	Bkly 8757J
Fairbanks, Hilda Shaw	Fresno	Fellows, Marguerite Mae	Pasadena
1 LS-2428 Channing way	Bkly 6408	1 LS-2420 Durant av	Bkly 8757J
Fairbanks, Winnie	Fresno	Felt, Clarence James	Berkeley
3 LS-2428 Channing way	Bkly 6408	4 Com-1732 Channing way	Bkly 6489
Falck, Depue	Ogden, Utah	Fendt, Alma Edna	Colusa
4 Agr-1970 Los Angeles av	Bkly 7165	1 LS-1706 Walnut st	
Falck, Waldemar A.	Los Angeles	Fenton, John Herman	Sacramento
4 LS-2333 College av	Bkly 1722	4 Mec-2501 Ridge rd	Bkly 1335
Falcovich, Sam Arnold	San Francisco	Ferguson, Elizabeth Van Everen	Berkeley
11 Agr-2201 Ellsworth st		4 LS (H Bot)-5 Panoramic way	Bkly 7734
Falk, Celia	Napa	Ferguson, Fergus	Berkeley
12 LS-552 Forty-first st, O	Pied 2506	11 Agr-Sequoia apts	Bkly 7050J
Fardelius, Mabel Juliana	San Diego	Ferguson, Helen Frances	San Francisco
1 LS PreM-2117 Center st	Bkly 6521	3 LS-2739 Dwight way	Bkly 5392J
Farman, Margaret Anna	Napa	Ferguson, Hugh Thornburg	San Francisco
3 LS-2629 Haste st	Bkly 3287	2 Mec-2739 Dwight way	Bkly 5392J
Farmer, Clarence Wesley	Hanford	Ferguson, Lvie Walter	Nilesd
2 LS PreL-2616 Virginia st	Bkly 6716	2 Agr-1925 Home st	Bkly 2434W
Farneman, Donald Guy	Los Angeles	Ferguson, Neil Cook	Stockton
4 Com-2106 Hearst av	Bkly 3723J	2s Agr-2684 Bancroft way	Bkly 6744
Farrar, Evelyn	Eureka	Ferrill, John Harvey	Adrian
3 LS-2749 Dwight way	Bkly 204	2 Com-2214 Union st	Bkly 2483
Farrington, Bruce Barton	Alameda	Ferris, Winifred Jeanette	Berkeley
2 Chem-1117 Morton st, A	Ala 1378	8 LS (H Ger)-1922 Home st	Bkly 7571W
Farrington, Efner Dwight	El Monte	Ferroggiaro, Sylvia Anna	San Francisco
4 LS (H Anat) and 1 Med-2427 Durant av	Bkly 4521	1 LS-938 Valjejo st, S F	Prkin 4515
Farwell, Raymond Forrest	Seattle, Wn.	Fetterly, William Adam	Riverdale
3 LS-2632 Channing way	Bkly 781W	2 Com-2520 Virginia st	Bkly 2608
Fassett, Charles Wilson	Oakland		
1 CE-927 Adeline st, O	Oakd 5275		



Fibush, Hedwig	Piedmont	Fitzgerald, Gerald John	Grass Valley
2 LS-116 Pala av, P	Pied 1978W	1 LS PreA-1164 Spruce st	Bkly 661
Fibush, Martha	Piedmont	Fitzgerald, Geraldine Mary San	Luis Obispo
3 LS-116 Pala, av, P	Pied 1978W	1 LS-2334 Bowditch st	Bkly 1358W
Field, Clémence Elisabeth	San Francisco	Fitzgerald, Harold John	Oakland
3 LS PreA-2313 Hilgard av	Bkly 3372	*Fitzhugh, Marion Eccelston	Pied 1470
Field, Ruth Ann	San Francisco	4 LS-2723 Durant av	Berkeley
4 LS-2313 Hilgard av	Bkly 3372	Fitzpatrick, John Frederick	Bkly 9531
Felder, Harold Edwin	Vallejo	*Agr-2332 College av	Saticoy
3s Mec-2617 Durant av	Bkly 373	Flanders, Stanley Ellsworth	Bkly 6689
Filkin, Edna	Riverside	*1 LS-2420 Durant av	Chula Vista
4 LS-2429 Channing way	Bkly 4648	Fleishman, Evelyn	Bkly 4581
Filkins, Grace Carlotta	Greeley, Colo.	*1s LS-2318 Telegraph av	Pasadena
*1 LS-1547 Euclid av	Bkly 5531	Fleming, George Adair	Bkly 5964
Final, Gertrude Edna	Long Beach	4 Mec-2332 College av	San Diego
1 LS-2420 College av	Bkly 8391	Fleming, Mildred	Bkly 1134
Finch, Wilber Benjamin	Los Angeles	1 LS-2725 Channing way	San Jose
*4 CE-2235 Chapel st		Fletcher, Catherine Holton	Bkly 7950
Fink, Anna Harriet	Klamath Falls, Ore.	2 LS-2723 Durant av	San Diego
1 LS-2505 College av	Bkly 808	Fletcher, Edna Cecile	Bkly 9531
Finley, Theodore Randolph, Jr. Santa Maria		2 LS-3993 Washington st, S F	San Francisco
4 LS PreL-2251 College av	Bkly 9107	Flett, Beatrice Vesta	Palo Alto
Finnell, Pauline	Red Bluff	*1 LS-2420 College av	Bkly 8391
3 LS-2709 Channing way	Bkly 8528	Fliege, Julius Stewart	Berkeley
Firebaugh, Frederic Ludwig	Austin, Tex.	2 LS PreL-2132 Derby st	Bkly 6416J
5 Min-106 Plaza dr	Bkly 2389	Flock, Henry Stephen	Sacramento
Fischer, Marie Carolyn	Spokane, Wn.	3 LS PreL-2332 College av	Bkly 1134
2 LS-2642 Derby st	Bkly 3285	Floodberg, Fred William	Lakeport
Fiselbrand, Isabelle Martina	Berkeley	3 LS-2314 Dwight way	
3 LS-2211 Ellsworth st	Bkly 5496W	Flood, Henry Lawrence	San Francisco
Fish, Anita Marie	Alameda	*1s Agr-2345 Devisadero st, S F	West 6673
3 LS-1420 Fountain st, A	Ala 2075W	Florida, John Freeborn	Berkeley
Fish, George Winthrop	Los Angeles	1 LS PreL-2625 Hearst av	Bkly 7614
*4 LS-2330 Telegraph av	Bkly 4429	Flory, Charles Lawrence	Porterville
Fish, Ruth Ella	Buckeye	*1 LS-2316 Fulton st	Bkly 2748J
3 LS (H Math)-1416 Thirty-fourth av, O	Frvl 1701W	Flv, Marion	San Francisco
Fish, Verna Lucile	Valdez, Alaska	*1 LS-1609 Franklin st, S F	Frkn 8843
*1 LS-2138 Derby st	Bkly 6217J	Flvnn, Dorothy	Berkeley
Fishburn, Charles Hall	San Diego	3 LS-1550 Oxford st	Bkly 2955
1 Agr-1711 Euclid av	Bkly 9306	Flynn, Marjorie	Berkeley
Fisher, Beverly Harold	San Francisco	4 LS-1550 Oxford st	Bkly 2955
2 LS PreM-2228 Dana st	Bkly 1053	Flynn, Southard Tolchard	Berkeley
Fisher, Henry Buford	Alameda	1 LS PreM-1550 Oxford st	Bkly 2955
1 CE-1129 Park st, A	Ala 2265	Folger, Anthony	Berkeley
Fisher, Lorin Herbert	Alameda	2 LS-2715 Claremont blvd	Bkly 785W
1 Agr-3268 Briggs av, A		Folger, Arthur	Mill Valley
Fisher, Ray Wall	Oakland	4 Agr-University Farm, Davis	
4 Agr-University Farm, Davis		Follett, Paul Beach	Richmond
Fisk, Emma Shone	Santa Rosa	1 Agr-501 Bissell av, R	Rchd 203
1 LS-2563 Martinez av	Bkly 9132	Follett, Zula Myrtle	Tuolumne
Fiske, Jeune Laura	Portland, Ore.	1 LS-2238 Eunice st	Bkly 2830W
*2 LS-2732 Channing way	Bkly 9317	Folsom, Florens Bluxome	Berkeley
Fitch, Rachel Avis	Berkeley	*1s LS-1905 Berryman st	Bkly 4021J
3 LS-2400 Haste st	Bkly 4596	Foltz, Hudson	Pasadena
*Fitschen, Myrtle Viola	San Francisco	*2s LS-1709 La Loma av	
4 LS-2620 Haste st		Foltz, Robert Emerson	Oakland
Fitzgerald, Arthur Gerald	Berkeley	1 Chem-2035 Tenth av, O	
4 LS-2704 Derby st	Bkly 4101W	Fones, Robert Angell	Oakland
Fitzgerald, Georgina	Oakland	1 Mec-832 Cleveland st, O	Mer 1178
*2 LS-2425 Park blvd, O	Mer 5765		

- Fong, Helen San Francisco  
1 LS-389 Sixth st, O
- Footo, Fred Jennings Oakland  
\*1 Mec-816 Fifty-sixth st, O
- Footo, Lois Tiburon  
\*2 LS PreM-2236 Durant av
- Ford, Norman Waterlow San Francisco  
1 Agr-1620 Broadway, S F Papt 1975
- Foreman, Merle Swope Berkeley  
\*2 Agr-2637 Regent st
- Forester, Frank Williamson Pomona  
2 LS PreL-2438 Durant av Bkly 4567
- Forester, Hazel Williamson Pomona  
\*1s LS-Cambridge apts Bkly 2500
- Forsey, Harold Warren Fresno  
1 Agr-2607 Hearst av Bkly 5913
- Forstyth, Lillian Maud Alameda  
\*1 LS-3938 Twenty-sixth st, S F
- Forstyth, Margaret Valen 4327  
2 LS-2721 Haste st Santa Rosa Bkly 8800
- Fortson, William Stokley San Bernardino  
1 LS PreL-2528 Ridge rd Bkly 3277
- Foshag, William Frederick Pomona  
4 Chem-2600 Bancroft way Bkly 6819
- Foster, Angier Hobbs El Paso, Texas  
4 Chem (H)-2600 Bancroft wav Bkly 6819
- Foster, Benjamin Blackwood San Rafael  
4 Agr-2251 College av Bkly 9107
- Foster, Daniel Parsons Portland, Ore.  
4 LS and 1 Med-2521 Hearst av Bkly 708
- Foster, Evans Ronald East Auburn  
4 Mec-2616 Virginia st Bkly 6716
- Foster, George Warfield, Jr. Dixon  
3 Com-2312 Durant av Bkly 1842
- Foster, Mira Mae Santa Cruz  
3 LS-1739 Euclid av Bkly 493
- Foster, Ruth M. Oakland  
3 LS (H Econ)-609 Santa Ray av, O Oakd 786
- Foveaux, Valerie Ailene Alameda  
4 LS-1715 LeRoy av Bkly 2351
- Fowler, Alice Marie Los Angeles  
\*2 LS-2526 Hilgard av Bkly 1441
- Fowler, Birdie Rosalind Los Angeles  
\*1s LS-2624 Virginia st Bkly 3663
- Fowler, Donald B. Bakersfield  
1 LS PreL-2614 Dwight way Bkly 1276
- Fowler, Esther Elizabeth Los Angeles  
\*3 LS-2228 Union st Bkly 1445
- Fowler, Homer Clemmens Oleum  
\*1 Mec-Oleum
- Fowler, Lester Albert Los Angeles  
4 CE-2333 College av Bkly 1722
- Fox, Dilla Hazel Alhambra  
2 LS-3055 Richmond av, O Lksd 486
- Fox, Ezra Benedict Albany, N. Y.  
1 LS PreL-2039 Shattuck av
- Fox, Lucia Byrne Madison, Wis.  
3 LS-2710 Channing way Bkly 9520
- Fox, Ray Glenn  
4 LS-2243 Virginia st Bkly 7580W
- \*Foy, John Macy Berkeley  
4 LS-1728 Arch st Bkly 945
- Foye, Olga Winifred Oakland  
4 LS (H French)-St. Mark's Hotel, O Oakland 6090
- Francis, Paul Robertson Berkeley  
1 Chem-2743 Fulton st Bkly 4256
- Frandr, Melvyn Lloyd James Nevada City  
3 Mec-2316 Bowditch st Bkly 6504
- Frank, Anna Rosalind Los Angeles  
4 LS-2524 LeConte av Bkly 2531
- Frankenheimer, Ruth S. Stockton  
1 LS-2627 Hearst av Bkly 4009
- Frankie, Lawrence William San Francisco  
1 LS PreL-2546 Chilton way
- Franklin, Mason Emory Los Angeles  
3 Agr-2646 Dwight way Bkly 4104
- Franklin, Ruth San Francisco  
3 LS-2775 Lombard st, S F Fmr 4668
- Franklin, Sidney San Francisco  
\*1 LS PreL-2775 Lombard st, S F Fmr 4668
- Fraser, Annie Mills Berkeley  
\*3s LS-2500 Durant av Bkly 8127J
- Fraser, Harold Eugene Oakland  
1 LS PreM-843 Chestnut st, O Lksd 2940
- Fraser, Sydney Edison Berkeley  
3 Min-2725 Forest av Bkly 4187W
- Fravert, Georgia Olive Denver, Colo.  
3 LS-1729 Shattuck av
- Fravert, Mona Eileen Denver, Colo.  
3 LS-1729 Shattuck av
- Frazee, Alma Mae Oceanside  
1 LS-2409 Sixth st
- Frazier, Delmar James Berkeley  
\*3 LS PreM-2607 Woolsey st Bkly 3751W
- Fredericks, Sadie Oakland  
4 LS (H Ger)-818 Seventh av, O Mer 2613
- Frederiksen, Gerda Los Angeles  
2 LS-2084 Durant av Bkly 6939W
- Frediani, Amerigo John Windsor  
3 LS (H French)-2624 Virginia st Bkly 3663
- Fredlev, Lewis Jav Los Angeles  
2 LS-2380 College av Bkly 5096
- Freeland, Helen Stansbury E. Orange, N. J.  
4 LS-2560 Buena Vista way Bkly 6325W
- Freeman, John Lawton Santa Monica  
3 Com-2550 Ellsworth st Bkly 3647
- Freitas, Mary Margaret San Francisco  
1 LS-406 Ellis st, S F Fkls 8787

- Frellson, Ernest Merville  
 1 LS-2380 College av  
 French, Chester  
 11s Juris-St. Mark Hotel, O  
 French, Gordon Alexia  
 2 Com-2618 Durant av  
 French, Margaret Loretta  
 2a LS-798 Post st, S F  
 French, Margaretta Josephine  
 4 LS-2036 Blake st  
 French, William Oscar  
 3 LS PreM-1518 Fourth av, O  
 Mer 1860  
 Pasadena  
 Bkly 8476W  
 Pasadena  
 Bkly 8476W  
 Berkeley  
 1 LS-2315A Parker st  
 Frickstad, Marguerite Davis  
 23 LS-2500 Bancroft way  
 Friedman, Louis  
 2 LS PreL-277 Fifth st, O  
 Friedman, Mindella Harriette  
 2 Com-1919 Grove st  
 Fredericha, Walter Ungermann  
 San Francisco  
 1 LS PreL-234 Liberty st, S F  
 Man 5906  
 Los Angeles  
 4 LS-2642 Bancroft way  
 Fritschen, Carl Henry  
 1 CE-3544 Mission st, S F  
 Froberg, John  
 4 Com-2320A Bancroft way  
 Frost, Charles Lawrence  
 3 LS-2380 College av  
 Frost, Francis Daniel  
 1 LS PreL-2822 Garber st  
 Frost, Gertrude  
 4 LS-2702 Virginia st  
 Frost, Ralph Aldom  
 2 LS PreL-2400 Dana st  
 Frumkin, Milton Julius  
 Salt Lake City, Utah  
 2 Com-2248 Telegraph av  
 Fry, Hazel Pearl  
 1 LS-2519 Hillegass av  
 Frv, John Alvareze  
 1 LS PreL-1935 Haste st  
 Fuentes, Fernando S.  
 Pontevedra, Panay, P. I.  
 11 LS-475 Vernon st, O  
 Fuji, Edward Ryuichi  
 1 Chem-447 Thirty-fourth st, O  
 Pied 4990W  
 Los Angeles  
 Bkly 6441  
 San Francisco  
 12 Mec-1285 Oak st, S F  
 Park 4849  
 Geyserville  
 Bkly 5098  
 Oakland  
 Oakd 6000  
 Baker, Ore.  
 Bkly 8858  
 Oakland  
 Pspt 4783  
 Watsonville  
 Bkly 8958W  
 Modesto  
 Mer 1860  
 Pasadena  
 Bkly 8476W  
 Pasadena  
 Bkly 8476W  
 Berkeley  
 Berkeley  
 Bkly 1848  
 Oakland  
 Oakd 6747  
 Berkeley  
 Bkly 7608W  
 San Francisco  
 Man 5906  
 Los Angeles  
 San Francisco  
 Men 6216  
 Berkeley  
 Bkly 2465W  
 Healdsburg  
 Bkly 5098  
 Berkeley  
 Bkly 5469J  
 Shanghai, China  
 Bkly 6789  
 Berkeley  
 Bkly 2388  
 Salt Lake City, Utah  
 Bkly 9011  
 Klamath Falls, Ore.  
 Bkly 477  
 Berkeley  
 Berkeley  
 Bkly 4702  
 Santa Ana  
 Bkly 4698  
 Nordhoff  
 San Francisco  
 Bkly 7325  
 Colfax, Wn.  
 Bkly 7263W  
 Sioux Falls, S. D.  
 Bkly 552  
 Salt Lake City, Utah  
 Bkly 3663  
 San Rafael  
 Bkly 3637  
 Pasadena  
 Bkly 3663  
 San Francisco  
 Bkly 3267  
 Santa Cruz  
 Bkly 498  
 Redondo Beach  
 Bkly 3873  
 Stockton  
 San Francisco  
 Pied 1925  
 Los Angeles  
 Oakd 6517  
 Richmond, Ind.  
 Ventura  
 Bkly 708  
 St. Louis, Mo.  
 Bkly 3146J  
 Alameda  
 Tarrytown, N.Y.  
 Bkly 7146  
 Tarrytown, N.Y.  
 Bkly 7146  
 Live Oak  
 Santa Ana  
 Bkly 5941  
 Berkeley  
 Bkly 8269  
 San Francisco  
 Mrkt 5604  
 Berkeley  
 Bkly 1848  
 Francisco Rosales  
 San Salvador, Central America  
 Bkly 2500  
 Berkeley  
 Bkly 1276  
 Berkeley  
 Bkly 4702  
 Santa Ana  
 Bkly 4698  
 Nordhoff  
 San Francisco  
 Bkly 7325

- Gamble, Helena Stockton  
2 LS-2510 Buena Vista way Bkly 2890W
- Gammans, Gordon Berkeley  
\*2 LS-Landon Court, O Oakd 3989
- Gardiner, Vera Helen San Francisco  
2 LS-1715 LeRoy av Bkly 2351
- Gardner, Eleanor Ruth San Francisco  
1 LS-2732 Channing way Bkly 9317
- Gardner, Mona Clariase Oroville  
\*2 LS-2417 LeConte av Bkly 5650
- Gardner, Mona M. Los Angeles  
1 LS-Lafayette apts Bkly 4026
- Gardner, Raymond Evan Oroville  
2 LS PreL-2601 Durant av Bkly 23
- Gardner, Ruth Ada Berkeley  
3 LS (H Phys Ed)-2525 Durant av Bkly 1973
- Gardner, Vivien Hollywood  
4 LS (H EngI)-2526 Hilgard av Bkly 1441
- Garland, Milton Drew Angels Camp  
1 Agr-2214 Union st Bkly 2483
- Garland, Mirian Marcella Bakersfield  
3 LS (H EngI)-Hotel Shattuck Bkly 7300
- Garner, Gladys Irene Lodi  
2 LS-2400 Piedmont av Bkly 5224
- Garnett, Richard Tompkins Oakland  
3 LS-3680 Broadway, O Glendale
- Garrett, Henson Mason Bkly 2541  
1 Agr-2627 Ridge rd
- Garrett, Vernon George Medford, Ore.  
4 LS-2610 Durant av Bkly 7804
- Garrison, Anna Hereford, Tex.  
2 Com-2239 Dwight way Bkly 1455J
- Garthwaite, Edwin Lowell Oakland  
4 Agr-University Farm, Davis
- Garthwaite, Wymond Bradbury Oakland  
3 LS PreA-2818 Telegraph av Bkly 5964
- Gatlin, Mae Waukegan, Ill.  
\*3 Com-1914 Virginia st Bkly 5426
- Gav, Leland Hiel Palo Cedro  
\*1 Mec-1872 Allston way Bkly 6194W
- Gearv, Elsie Eva Berkeley  
\*2 LS-2534 Grant st Bkly 920
- Gearv, Harry Oliver Berkeley  
2 Com-2534 Grant st Bkly 920
- Gearv, Helen J. Santa Rosa  
2 LS-2723 Durant av Bkly 9531
- Gearv, Margaret Louise Berkeley  
2 LS-3019 Hillegass av Bkly 4910
- Gednev, Ruthe Millicent Elko, Nev.  
\*1 LS-2542 Durant av Bkly 3873
- Gee, Fon Kew Berkeley  
\*1 LS-1917 Addison st Bkly 5779W
- Gee, William Allan Oakland  
4 Agr-University Farm, Davis
- Geffenev, William Lincoln Oakland  
\*1 LS PreL-1701 King av, O Fwly 1156
- Gehrett, Katherine Mabelle Oakland  
\*1a LS-2418 Dana st Bkly 3814
- Gehringer, Elaine Lois Concord  
1 LS-2542 Durant av Bkly 3873
- Geis, Elisabeth Willows  
1 LS-2541 Buena Vista way Bkly 2259J
- Geisdorf, Ella Florence Riverside  
4 LS-4105 Montgomery st, O
- Geisendorfer, George Rayner San Francisco  
\*2 LS PreL-2601 Channing way Bkly 5904
- Geiser, Helen Sacramento  
2 LS-2743 Regent st Bkly 4843J
- Gellatly, Lester Lyle Wenatchee, Wn.  
\*1 LS PreL-2001 Allston way Bkly 6710
- Genin, Jacob Russia  
\*1 Mec-2217 Fulton st
- George, Athanasie Sofia, Bulgaria  
3 CE-3765 Twenty-first st, S F Valen 1203
- George, Otto Oakland  
3 LS-3864 Peralta av, O
- Gerard, Roy Herbert Merced  
1 LS-2203 Los Angeles av Bkly 2550W
- Gerberding, Beatrice San Francisco  
3 LS-2731 Dwight way Bkly 6865W
- Gerhardy, Carl Otto Oakland  
2 Agr-3242 Grove st, O Pied 629J
- Gerhart, Margaret Elise Duarte  
4 LS-2542 Durant av Bkly 3873
- Gerrish, Gladys Berkeley  
1 LS-1615 Bonita av Bkly 797
- Gerrv, Daphne Eska Port Costa  
3 LS-2519 Hillegass av Bkly 477
- Getchell, Frances Fields Bakersfield  
1 LS-2417 LeConte av Bkly 5650
- Ghio, Bart Albert San Diego  
2 Com-663 Forty-second st, O Pied 4003J
- Gianelli, Rudolph Leonard Stockton  
5 LS and 1 Juris-2601 Durant av Bkly 23
- Giauque, William Francis Niagara Falls, Ont.  
1 Chem-2020 California st
- Gibbons, Fred Gray San Francisco  
3 LS-2601 Durant av Bkly 23
- Gibbons, Ruth Elaine Orangevale  
3 LS (H Hshld Art)-2736 Haste st Bkly 8680
- Gibbs, Ronald Dolzell Pasadena  
4 Agr-University Farm, Davis
- Gibbs, Sherman William Berkeley  
2 CE-2231 Shattuck av Bkly 4773
- Gibson, Dolores Santa Clara  
4 LS PreM (H Physiol)-2749 Dwight way Bkly 204
- Gibson, Donald Cameron San Leandro  
2 LS-468 E Fourteenth st, S L S L 390W

- Gibson, Falka Madeline      Oakland  
3 LS (H Math)-3084 Capp st, O      Frvl 218W
- Gibson, Leila Emogene      Ukiah  
1 LS PreM-2434 Piedmont av Bkly 8341
- Gibson, Maurice Embry      Los Angeles  
2 Com-1726 Euclid av      Bkly 8706
- Gibson, Paul Brier      Palo Alto  
1s LS PreL-2218 Dana st      Bkly 8267
- Gibson, Ruth Beatrice      Williams  
4 LS (H Engl)-2928 Grove st
- Gibson, Thomas Essington      Nordhoff  
3 LS PreM (H Physiol)-2428 College av      Bkly 4748
- Gidnev, Pearl Clara      Santa Barbara  
1 LS-2526 Hilgard av      Bkly 1441
- Gidoll, Sidney Henry      San Francisco  
2 LS PreM-150 Eleventh st, O
- Gifford, John      Honolulu, T. H.  
1 Chem-2251 College av      Bkly 9107
- Gil, Josephine Julia      Oakland  
1s LS-1429 Fourteenth st, O      Oakd 6561
- Gilbert, Virginia      Long Beach  
2 LS-2435 Hilgard av      Bkly 6406
- Gilcrease, Berry      Lemoore  
4 Com-Elks Club      Bkly 176
- Gilcrest, Evelyn Weston      Livermore  
1 LS-2704 Derby st      Bkly 9058J
- Gildersleeve, Carlton Carlyle      Napa  
3 CE-2600 Durant av      Bkly 2593
- Gildersleeve, Charles Leland      Toledo, Ore.  
1 CE-2001 Allston way      Bkly 6710
- Gilks, Louise Evelyn      Los Angeles  
3 LS-2736 Haste st      Bkly 8680
- Gilliam, Maurine Elise      Visalia  
2 LS-1700 Euclid av      Bkly 1625
- Gilligan, Brenice Frances      Los Angeles  
3 LS-2420 College av      Bkly 8391
- Gilmer, Marv Elizabeth      Seneca  
2s LS-2417 LeConte av      Bkly 5650
- Gilson, Dorothy      Glendale  
3 LS-1637 Oxford st      Bkly 2087J
- Gimbal, Lerov Monroe      Oakland  
2 LS-815 Wayne av, O      Mer 1479
- Gimbal, Louise      Oakland  
1 LS-Key Route Inn, O      Oakd 5924
- Gimbal, Ravnor Eugene      Oakland  
4 LS-2522 Ridge rd      Bkly 5950
- Ginsburg, Solomon      Rogatchev, Russia  
1 Mee-2217 Fulton st
- Girton, William Harold      Orange  
3 Agr-2333 Dwight way      Bkly 5374W
- Glaser, Mark Albert      San Francisco  
2 LS PreM-1734 Golden Gate av, S F      West 2591
- Glasscock, Orphelia Maree      Ione  
1 LS-3011 College av      Bkly 6059
- Glaze, Helen Evelyn      Boise, Idaho  
3 LS-2447 Russell st      Bkly 6875
- Gleason, George B.      Yreka  
3 OE-2521 Channing way      Bkly 5831
- Glenn, William Archer      Sacramento  
3 Agr-University Farm, Davis
- Glickman, Abe      Oakland  
1 LS PreL-3120 Telegraph av, O      Pied 1953J
- Glover, Anne      Los Angeles  
4 LS and 1 Juris-59 Madison Park      Bkly 4968
- Gnekow, Lester Edward      Stockton  
1 LS-2231 Dana st      Bkly 6361J
- Gobin, Eva Lena      Rocky Ford, Colo.  
2 LS-2237 Atherton st      Bkly 4968
- Godde, Harry Anthony      Hollywood  
2 Agr-2332 College av      Bkly 1134
- Goeggel, Gladys Irma      San Francisco  
4 LS-2721 Haste st      Bkly 8800
- Goeppert, Karl Theodore      San Francisco  
1 LS-2425 LeConte av      Bkly 4334
- Goeppert, Lloyd William      San Francisco  
4 Com-2425 LeConte av      Bkly 4334
- Goert, George Frederick      Alameda  
1s Agr-1545 Sherman st, A      Ala 3403W
- Goetz, Edwin      San Francisco  
2s Chem-268 Fifth st, O
- Goff, Jean Constance      Pasadena  
3 LS (H Zool)-2811 College av      Bkly 6915J
- Gohn, Helen Virginia      Alameda  
1 LS-1200 St Charles st, A      Ala 3500
- Goin, William Vincent      Berkeley  
2 Agr-2203 Chapel st      Bkly 8791
- Goldaracena, Orel Andrew      San Francisco  
3 LS-2449 Jackson st, S F      Flmr 1019
- Goldberg, Richard S.      Harbin, Manchuria  
2 Min-1612 Walnut st      Bkly 1849W
- Goldie, Marjorie Matthews      Victoria, B.C.  
1 LS-2431 College av      Bkly 6945J
- Goldman, Beatrice Doris      Los Angeles  
1 LS-2231 Bancroft way
- Goldstein, Noah Nathan      San Francisco  
4 Mee-118 Noriega st, S F      Snst 1504
- Goldthwaite, Gardner Cobb      Alameda  
2s Mee-371 Cedar st, A      Ala 2278
- Goldwater, Nathan      Oakland  
2 LS PreL-353 Grand av, O      Lkad 1897
- Goodall, George Edwin      San Francisco  
3 CE-1461 Alice st, O      Lkad 1098
- Goode, Ethel Speaker      San Diego  
1 LS-2721 Channing way      Bkly 1577
- Goodloe, Claraacott      San Francisco  
3 LS-2704 Channing way      Bkly 8352
- Goodsell, Ralph Evander      Berkeley  
14 LS-2614 Dana st      Bkly 8982J
- Goodaell, Ruth Emma      Berkeley  
4 LS-2614 Dana st      Bkly 8982J
- Goodwin, Dorothy Hazledine      San Francisco  
8 LS-1584 LeRoy av      Bkly 6077
- Goong, Rose Victoria      San Francisco  
1 LS-3050 Hillegass av

Gordon, Allene Lenore	Richmond	Grant, Charles Hayden	Cloverdale
3 LS (H Engl)-2531 Ridge rd		3 LS PreL-2647 Durant av	Bkly 102
	Bkly 6485	Grant, Phil Stringham	Culver City
Gordon, Amy	Oakland	3 LS-2320 Bancroft way	Bkly 1358J
1 LS-5602 Taft av, O	Pied 6571	Graser, Frederick Arthur	Riverside
Gordon, Clifton Rogers	Oakland	'2 Agr-2218 Dana st	Bkly 3267
2 LS-1726 Euclid av	Bkly 6706	Gravem, Axel Berg	San Francisco
Gordon, Gillette Eddy	Riverside	3 LS PreL-1828 Delaware st	
4 Agr-University Farm, Davis			Bkly 9030W
Gordon, Hughena	Salt Lake City, Utah	Gravem, Marie Naomi	Stockton
1 LS-2401 Durant av	Bkly 6681	3 LS-2709 Channing way	Bkly 8528
Gordon, Lena May	Berkeley	Graves, Oletus Henry	Pennington
1 LS-2308 LeConte av	Bkly 8385W	'5 LS and '2 Med-1811 Hearst av	
Gordon, Walter Arthur	Riverside	Graves, Frank	Pennington
3 LS PreL-2273 Shattuck av		1 LS PreL-1811 Hearst av	
Gorman, James Marco	Glendive, Mont.	Graves, Jessamine	Pennington
'4 CE-2307 Ellsworth st		2 LS-1811 Hearst av	
Gorman, Sidney Silvey	San Francisco	Graves, Verne Frye	Sutter
1 CE-5 State st, S F	Mkrt 5790	1 Mec-2600 Durant av	
Gorter, Leota Margaret	San Francisco	Gray, Baldwin	Oakland
'4 LS-2334 Bowditch st	Bkly 1358W	2 Juris-833 Linden st, O	Oakd 4679
Goss, Paul Henry	Berkeley	Gray, Carolyn Ramona	San Francisco
1 LS-2407 S Atherton st	Bkly 3330	2 Com-1225 Ashbury st, S F	Mkrt 6746
Goth, Sophus Carl	Fresno	Gray, Elizabeth	Oakland
3 Com-2528 Ridge rd	Bkly 3277	2 LS-2237 Durant av	Bkly 7929
Gotham, Gladys Minnie	Blissfield, Mich.	Gray, Ethel Graham	Oakland
2 LS-2960 Piedmont av	Bkly 4459	'1s LS-6024 College av, O	Pied 6277J
Goudey, Irene Lillian	Berkeley	Gray, Everett Johnson	Oakland
2 LS PreL-1610 Oxford st	Bkly 2988	3 LS PreL-2604 Ninth av, O	Mer 3655
Gould, Harriet Sheafe	Berkeley	*Gray, George Shannan	Portland, Ore.
4 LS-2336 Channing way	Bkly 2791	4 Min-2214 Union st	Bkly 2483
Gowen, George Morton	Bakersfield	Gray, Hartsel Curtis	Huntington Beach
3 Agr-2625 Hearst av	Bkly 7614	'1 Agr-2120 Channing way	Bkly 3553W
Grady, Genevieve	Berkeley	Gray, John Clarence	Oakland
1 LS PreA-2809 Kelsey st	Bkly 4426J	'1 Agr-2471 Sixty-second av, O	
Grady, Henry William	Merced		Elm 666
1 LS-2505 Dwight way	Bkly 132W	Gray, Robert Floyd	Alameda
Grady, Irene Mai	Merced	4 LS-1141 Park av, A	Ala 2562
4 LS (H Ger)-2505 Dwight way		Grebenc, Lucile	Oakland
	Bkly 132W	1s LS-641 Fairmount av, O	
*Graf, Robert Edward, Jr.	Pomona	Greeley, Jane Halletta	St. Paul, Minn.
5 LS-2330 College av	Bkly 5098	2 LS-2627 Hearst av	Bkly 4099
Graff, John Robert	Berkeley	Green, Katharyn Boyce	Berkeley
4 Agr-2808 Regent st	Bkly 1008	1 LS-2930 Benvenue av	Bkly 8093J
Graham, Hazel Frances	Oakland	Green, Russell Hamilton	San Francisco
'1 LS-2415 Telegraph av, O	Oakd 1322	1 CE-575 Eleventh av, S F	Pac 4953
Graham, Hervey King	Berkeley	Green, Virginia Fidelia	Berkeley
3 LS PreM-2611 Webster st	Bkly 4130J	'3 LS-1417 Bonita av	Bkly 7983W
Graham, James Duncan	Long Beach	Green, Watros Earle	Oakley
1 Agr-2609 LeConte av	Bkly 3836W	'4 LS-2223 Chapel st	
Graham, Lucile	San Francisco	Green, Wilber Allen	Vallejo
2 LS PreM-2721 Haste st	Bkly 8800	1 Chem-2627 Ridge rd	Bkly 2541
Graham, Malbone Watson	Berkeley	Green, William McAllan	Lakeport
2 LS-1639 Oxford st	Bkly 6282W	2 LS-2215B Durant av	Bkly 1624
Graham, William Alexander	Alhambra	Greene, Bessie Byrd	Modesto
4 Agr-University Farm, Davis		1s LS-2927 Garber st	Bkly 5039J
Granberg, John Waino	Astoria, Ore.	Greenleaf, Sidney Stephen	San Francisco
4 Com-2528 Ridge rd	Bkly 3277	8 LS-6124 Telegraph av, O	Pied 6968W
Granger, Fannie Etoile	San Jose	Greenstein, Moses N.	San Francisco
4 LS-1736 Oxford st	Bkly 7247	'1 Agr-2201 Ellsworth st	

Greenwood, Heman Charles	Berkeley	Grow, Walter Lowrie	Claremont
4 Mec-1920 University av	Bkly 7586	<sup>14</sup> LS-2614 Hilgard av	Bkly 3835
Gregersen, Halfdan Ingstrup	Solvang	Grul, William Henry	Watsonville
1 Com-8240 Briggs av, A		1 LS PreL-2601 Channing way	Bkly 5904
Gregg, Rebecca Eads	Glendale	Grunsky, Carroll Gillis	Stockton
1 LS-2624 Virginia st	Bkly 3668	2 LS PreL-2400 Bancroft way	Bkly 78
Gregorv, Clara Bailey	Oroville	Gudde, Erwin Gustav	Berkeley
2 LS-1700 Euclid av	Bkly 1625	4 LS (H Ger)-2238 Ellsworth st	Bkly 4230
Gregorv, Donald Munson	Berkeley	Guenza, Humbert	Grass Valley
<sup>12</sup> LS PreL-1726 Euclid av	Bkly 6706	<sup>14</sup> Mec-2311 Bowditch st	Bkly 7037
Gregory, Harris A.	Oakland	Guidery, Lena	Ben Lomond
2 LS PreL-1970 Thirty-eighth av, O	Frl 1487W	4 LS-2634 Regent st	Bkly 6403W
Grenelle, Marv Alice	Boise, Idaho	Guilford, Margaret Susan	Orland
1 LS-2712 Derby st	Bkly 1754W	1 LS-1340 Oxford st	Bkly 858W
Grennan, Eileen	Berkeley	Guiton, Harold Edward	Wilmington
<sup>12</sup> LS-1714 Walnut st	Bkly 1177	1 CE-2406 Dana st	Bkly 7718
Grennan, John Aloysius	Berkeley	Gundelfinger, Edward Rowe	Fresno
1 Com-1714 Walnut st	Bkly 1177	4 Com (H Econ)-2519 Durant av	Bkly 8543
Griffin, Alice Augusta	Lonoak	Gundersen, George Oliver	Eureka
4 LS-2521 Dwight way	Bkly 6646W	3 LS PreM-2326 Grant st	
Griffin, Gladys Margarette	Berkeley	Gunn, Irene Marguerite Breckenridge, Minn.	
2 LS-3116 California st	Bkly 3935W	4 LS-1334 Arch st	Bkly 1822
Griffin, Margaret Carter	Santa Monica	Gunn, Ruby Mae	Berkeley
<sup>12</sup> LS-2335 Warring st		4 LS-1334 Arch st	Bkly 1822
Griffin, Philip	El Centro	Gunsendorfer, Mervyn	San Francisco
1 Agr-2141 Berkeley way	Bkly 4270	2 LS PreA-3367 Washington st, S F	West 5764
Griffin, Raymond Earl	Berkeley	Guppy, Florence Belle	Berkeley
2 Agr-1937 Cedar st		<sup>14</sup> LS-2430 Bancroft way	Bkly 4811
Griffin, Willard Cronise	Alameda	Gurley, Dorris Dimmock	San Francisco
2 Agr-2521 Hearst av	Bkly 708	<sup>22</sup> Mec-2605 Durant av	Bkly 552
Griffith, Enid Sydney	Penryn	Guthrie, Esther Luella	Oakland
2 LS-1815 Walnut st	Bkly 3092	1 LS-279 Forty-first st, O	Pied 6967W
Griffith, George Perry, Jr.	Los Angeles	Guthrie, Robert Allen, Jr.	Los Angeles
1 LS-1815 Highland pl	Bkly 1682	2 LS PreL-2251 College av	Bkly 9107
Griffiths, Walter Geraldson	Berkeley	Guy, Bernard Andrews	Berkeley
1 Agr-1529 Shattuck av	Bkly 1512W	4 LS PreL-2515 Hillegass av	Bkly 5728
Grimm, Elsie Adele	San Francisco	Haas, Elizabeth Roberta	Berkeley
2 LS-963 Fourteenth st, S F	Park 4666	<sup>22</sup> LS-1522 LeRoy av	Bkly 6686W
Grimmer, Byron Floyd	Fresno	Haas, Louise Janet	Berkeley
4 Mec-2217 Ellsworth st	Bkly 6822J	<sup>21</sup> LS-1522 LeRoy av	Bkly 6686W
Grinsfelder, Sam	Spokane, Wn.	Haberfelde, Albert Valentine	Bakersfield
1 Min-2310 College av	Bkly 4126J	2 Com-2427 Channing way	Bkly 7325
Gripp, Emma Elizabeth	Oakland	Halberfelde, Clarisse Ruth	Bakersfield
1s LS-702 Lerida av, O	Oakd 6981	1 LS-2417 LeConte av	Bkly 5650
Grizzle, Mervin A.	Arroyo Grande	Haberkorn, Herbert Walter	Berkeley
2 Agr-2600 Durant av	Bkly 2593	1 CE-1540 Walnut st	
Groff, Lolita Mitchell	Oakland	Hackh, Ingo W. D.	Stuttgart, Germany
2 LS-Cleveland and Park blvds, O	Mer 3794	3 LS-2314 Bancroft way	Bkly 1431W
Grondorf, Herman	Ukiah	Hadley, Loren S.	Modesto
4 Mec-2407 S Atherton st	Bkly 3330	4 Agr-2400 Haste st	Bkly 4596
Gropn, Alfred Augustus	Sacramento	Hadley, Ruby Jeannette	Modesto
2 Com-2628 Thirteenth av, O	Mer 899	3 LS-2400 Haste st	Bkly 4596
Gross, Mabel Theresa	San Jose	Hadley, Walter Wilbert	Richmond
1 LS-2327 Bancroft way	Bkly 5816	2 Min-332 First st, R	Rchd 425
Grove, Lois Hendren	Willits	Hageman, Warlow Raymond	Hanford
1 LS-2985 Claremont av	Bkly 450	<sup>21</sup> Agr-2304 Telegraph av	Bkly 3428
Groves, Robert Leroy	Marysville		
4 LS-2333 College av	Bkly 1722		

- Hagensen, Madeline Augusta San Francisco  
 '1 LS-51 Duncan st, S F Men 6148  
 Hagopian, Hovsef Harpoot, Armenia  
 '2a LS-115 Washington st, S F Krny 3424
- Hagopian, Nishan Der New York, N. Y.  
 '1 LS-2240 Telegraph av Bkly 1249
- Haheev, William Martin Tulare  
 3 LS PreL-2162 Center st  
 Hahn, Dorothy Catherine Oakland  
 '3 LS-2715 Peralta av, O Frvl 1893W  
 Hahn, Esther Dahl Oakland  
 3 LS-936 Eighth st, O Lksd 1358  
 Hahn, Helen Marie Oakland  
 3 LS-936 Eighth st, O Lksd 1358  
 Hahn, LeRoy Walter Berkeley  
 2 LS PreM-2331 Roosevelt av Bkly 7779  
 Haight, Frank Kelsev Fortuna  
 4 LS and 1 Med-2684 Bancroft way  
 Bkly 6744
- Halbert, Jane Caroline Oakland  
 4 LS-2710 Channing way Bkly 9520
- Halbert, John Bentlev Long Beach  
 3 Agr-2625 Hearst av Bkly 7614
- Hale, Elah Guian Berkeley  
 1 LS PreA-3012 Grove st Bkly 4734J
- Hale, Henry Myers San Leandro  
 1 Com-2522 Ridge rd Bkly 5950
- Hale, Ray Morrison Placentia  
 2 Agr-Oxford apts Bkly 2385W
- Hall, Ansel Franklin Oakland  
 4 Agr-328 Lenox av, O Oakd 3679
- Hall, Bryant Fairbanks, Alaska  
 5 CE-2701 Hearst av Bkly 2421
- Hall, Geraldine Markham Petaluma  
 2 LS-2714 Ridge rd Bkly 9093
- Hall, Horace John Newtown, Newfoundland  
 3a LS PreM-2162 Center st Berkeley  
 1 Min-2511 Channing way Bkl 3121J
- Hall, Lowell Carev Oakland  
 1 Com-2522 Ridge rd Bkly 5950
- Hall, Parker Lee Berkeley  
 2 LS-2518 Etna st Bkly 4975
- Hall, Ralph Soto San Francisco  
 1 LS PreM-2195 Green st, S F West 1901
- Hall, Raymond A. San Francisco  
 '1s Mcc-26 Judah st, S F Snst 887
- Hall, Rexford Luther El Cajon  
 4 Com-2415 Durant av Bkly 1712
- Hall, Ruth Higgins Fort Scott, Kans.  
 1 LS-2247 Ellsworth st Bkly 7429
- Hall, Thomas Gerald San Francisco  
 '3 LS PreM-1400 Fell st, S F West 286
- Hall, Verna L. Nevada City  
 4 LS (H Hist)-2520 Cedar st Bkly 2314
- Halliday, Frances Marv San Diego  
 '1 LS-2821 Bancroft way Bkly 1765
- Halliday, Helen Gertrude Point Arena  
 2 LS-2736 Haate st Bkly 8680
- Hallock, Nina Marie Los Angeles  
 3 LS (H Math)-2401 Durant av Bkly 6681
- \*Hallum, Odean Tobias Seattle, Wn.  
 5 Min-2647 Durant av Bkly 102
- Hambly, Alvin Sargent Berkeley  
 '3 LS PreL-2620 Benvenue av Bkly 7380W
- Hambly, Helen Josephine Berkeley  
 2 LS-2620 Benvenue av Bkly 7380W
- Hamburg, Samuel San Francisco  
 '1 LS PreL-1427 Clement st, S F Pac 6141
- Hamill, Jean Martin San Francisco  
 2 LS PreA-851 California st, S F Krny 5113
- Hamilton, Blanche Berkeley  
 2 LS-2420 Ellsworth st
- Hamilton, Charlotte Isabelle Alameda  
 2 LS-1433 Paru st, A Ala 1187
- Hamilton, Francis Dale Eureka  
 2 Agr-2614 Dwight way Bkly 1276
- Hamilton, Julia Thomas Philadelphia, Pa.  
 1 LS-2637 Rose st Bkly 456
- Hamilton, Laurentine Seaver Oakland  
 '3 CE-2237 Virginia st Bkly 809
- Hamilton, Mary Esther Eureka  
 3 LS-2821 Bancroft way Bkly 1765
- Hamilton, Norman Standart Oroville  
 2 Mcc-1730 LaLoma av Bkly 8716
- Hammers, Herbert Gorham Newman  
 2 LS PreM-4353 Twenty-fourth st, S F Men 5892
- Hammill, Edward El Monte  
 4 Mcc-2213 Bancroft way Bkly 1238
- Hammon, Joseph Bell San Jose  
 4 Agr-2627 Ridge rd Bkly 2541
- Hammond, George Peter Caruthers  
 1 LS-2430 Channing way
- Hammond, Helen Somerville Los Angeles  
 1 LS-2642 Derby st Bkly 3285
- Hammond, Kessler Gilbert Fresno  
 4 Agr-University Farm, Davis
- Hammond, Ruth Livingston Los Angeles  
 2 LS-2642 Derby st Bkly 3285
- Hample, John Milton Butte, Mont.  
 2 Com-1726 Euclid av Bkly 6706
- Hampton, Merrill Lee Bishop  
 1 LS-2600 Durant av Bkly 2593
- Hampton, William Henry Live Oak  
 4 Chem (H)-2600 Bancroft way Bkly 6819
- Hancock, Dorothy Deane McCloud  
 '2 LS-2234 Atherton st Bkly 7368
- Hand, La Verne Long Beach  
 '3 LS-2627 Hearst av Bkly 4009
- Handv, Dorothy Louise Ukiah  
 1 LS-2526 Hilgard av Bkly 1441
- Hanev, Luella Engel Modesto  
 2 LS-2223 Dana st Bkly 1652W



- Hanlon, Edna Berenice San Francisco  
 1 LS-2302 Dwight way Bkly 4920J  
 Hanlon, Marie Maps Santa Ynez  
 3 LS (H Span)-2541 Buena Vista way Bkly 2259J  
 Hanna, Adella Abbie Berkeley  
 14 LS-2237 Haste st Bkly 5338  
 Hanna, Herman Julius Nashville, Tenn.  
 3 LS-2625 Hearst av Bkly 7614  
 Hannah, Dorothy Ellis Visalia  
 1 LS-2732 Channing way Bkly 9317  
 Hanner, Glen Lester Patterson  
 2 Agr-2427 Channing way Bkly 7825  
 Hansen, Albert Frederick Mendocino  
 3 LS PreL-1924 Channing way Bkly 4210  
 Hansen, Chester O. Selma  
 3 LS PreL-2701 Hearst av Bkly 2421  
 Hansen, Earl Bond San Bernardino  
 2 Mec-2528 Ridge rd Bkly 3277  
 Hansen, Hans William San Francisco  
 2 Chem-51 Dancers st, S F Mrkt 8732  
 Hansen, Hans William Mendocino  
 3 LS-1924 Channing way Bkly 4210  
 Hansen, Harvey Leslie San Francisco  
 4 LS-2001 Allston way Bkly 6710  
 Hansen, John Cecil Santa Paula  
 12 LS-2630 Bancroft way Bkly 6919  
 Hansen, Julius Theodore Pocatello, Idaho  
 3 Chem-2600 Bancroft way Bkly 6919  
 Hansen, Louis Allen San Francisco  
 1 Com-1035 Bush st, S F Papt 4372  
 Hansen, Reinhold Bernhard San Francisco  
 4 CE-208 Crocker blvd, S F Randolph 1343  
 Hansen, Thelma Maude Ventura  
 1 LS-1739 Euclid av Bkly 493  
 Hanson, George Emmanuel Redley  
 2 LS-2439 Grove st  
 Hanson, Henry Kingsburg  
 1 LS-2442 Piedmont av  
 Hanson, Kenneth Ian Unland  
 3 Agr-2529 Channing way Bkly 3125W  
 Hanson, Samuel San Francisco  
 3 LS PreM-454 Divisadero st, S F Mrkt 8471  
 Harbinson, James Edward Sacramento  
 4 LS PreM-2333 College av Bkly 1722  
 Hardgrave, Lloyd Elliott Tularville  
 2 Med-2500 Bancroft way Bkly 1848  
 Harding, Cora Belle Santa Barbara  
 13 LS PreL-1410 Scenic av Bkly 2328  
 \*Harding, Edna May Santa Cruz  
 4 LS-1739 Euclid av Bkly 493  
 Harding, Hubert Edward Melbourne, Australia  
 4 Agr-University Farm, Davis  
 Harding, Laura Van Nuys  
 3 LS-2434 Piedmont av Bkly 8341  
 Harding, Lois Ellen Berkeley  
 3 LS-1739 Euclid av Bkly 493  
 Hardison, Aura Delphina Berkeley  
 2 LS-Glengary apts Bkly 3431  
 Hardison, Ernest Domingo Santa Paula  
 1 Agr-2625 Hearst av Bkly 7614  
 Hardison, Harvey Coalinga  
 3 Min-Glengary apts Bkly 3431  
 Hardison, Ruth Crane Santa Paula  
 1 LS-1643 Euclid av Bkly 2094J  
 Hardison, Warren Emmet Santa Paula  
 4 Agr-2625 Hearst av Bkly 7614  
 Hardv, Arthur Cobb Berkeley  
 4 LS (H Physics)-2909 Ashby av Bkly 2918W  
 Hardv, Iola Oakland  
 1 LS-5825 Lawton av, O Pied 1108J  
 Hardy, Marie Ruth Jerseyville, Ill.  
 1 LS-1461 Alice st, O Lkad 1135  
 Hardv, Ruth Alden San Francisco  
 1 LS-2028 Carlton st  
 Hare, John Edward Redding  
 4 LS-2627 Ridge rd Bkly 2541  
 Hargear, Frank Foli Berkeley  
 2 LS PreL-2216 Ward st Bkly 6119  
 Harlan, Amelie Elise Williams  
 3 LS PreL-2508 Haste st Bkly 2075  
 Harlan, Joseph Ludwell, Jr. Woodland  
 2 LS-2618 Durant av Bkly 8858  
 Harmaza, Joseph Anthony Berkeley  
 1s Agr-2174 University av  
 Harms, Alfred Langen, Germany  
 1 LS-136 Beulah st, S F Mrkt 3470  
 Harper, Charles Franklin Los Angeles  
 3 LS-2610 Durant av Bkly 7804  
 Harpham, Dorothy Redlands  
 1 LS-Sequoia apts Bkly 7239W  
 Harrier, Lewis Gregory Oakland  
 1 LS PreL-6457 Benvenue av, O Pied 3192  
 Harrington, Phyllis Modjeska Los Angeles  
 1 LS-2328 Grove st Bkly 7269  
 Harris, Helen El Cajon  
 2 LS-2416 Channing way Bkly 1765  
 Harris, Isadore Franklin San Francisco  
 4 LS (H Anat) and 1 Med-291 Carl st, S F Mrkt 2085  
 Harris, Lucien Quintus San Francisco  
 3 LS-1809 Euclid av Bkly 1615  
 Harris, Marion Ione  
 1 LS-1643 Euclid av Bkly 2094J  
 Harris, Myron Russel Pasadena  
 13 Agr-2222 Bancroft way  
 Harrison, Edith Adelaide San Francisco  
 3 LS (H Engl)-1814 Woolsey st  
 Harrison, Georgia Helen Logansport, Ind.  
 4 LS (H Engl)-1809 Euclid av Bkly 1615  
 Harrison, Gregory Alexander San Francisco  
 4 LS and 1 Juris-1726 Euclid av Bkly 6706

- Harrison, Mabel Ruth Berkeley  
4 LS (H Pol Sci)-1809 Euclid av Bkly 1615
- Harrison, Mary Elizabeth San Francisco  
2 LS-2742 Derby st Bkly 367J
- Harrison, Ruth San Francisco  
1 LS-2509 Parker st Bkly 3506J
- Harroun, Daniel Stuart St. Joseph, Mo.  
1 Agr-2247 Bancroft way
- Harshbarger, Asa Foster San Francisco  
2 LS PreL-1521 Walnut st Bkly 9358W
- Harshberger, Edith Rodgers Long Beach  
3 LS-2736 Haste st Bkly 8680
- Hart, Elliott Glenn Alameda  
2 Com-772 Santa Clara av, A Ala 2032
- Hart, Harold Rowson Fresno  
1a CE-2112 Durant av Bkly 7751
- Hart, Joe Modesto  
3 CE-2521 Channing way Bkly 5831
- Harter, Clifford Clyde Merrill, Ore.  
4 LS PreL-2250 Fulton st Bkly 8284
- Harter, Orlin Clyde Yuba City  
2 Com-2521 Hearst av Bkly 708
- \*Hartley, John Stephenson Reedley  
4 LS-2212 Bancroft way Bkly 6391W
- Hartley, Paul James San Diego  
4 Agr-University Farm, Davis
- Hartley, William Pollard Reedley  
4 LS-2212 Bancroft way Bkly 6391W
- Harvey, I. J., Jr. Sacramento  
2a CE-2251 College av Bkly 9107
- Harvey, James Benton Sacramento  
4 LS and 1 Juris-2200 Piedmont av Bkly 6760
- Harvey, Reta Mary Berkeley  
2 Com-2522 Bancroft way
- Harvey, Stanley Bevan Long Beach  
3 LS PreL-2625 Hearst av Bkly 7614
- Haseltine, Laurance Emerson Berkeley  
4 Agr-2314 Dwight way Bkly 3330
- Haskell, Irma Imogene Berkeley  
4 LS-2218 Dana st Bkly 3267
- Haskell, Llewellyn Gilmore Berkeley  
2 Mec-2947 Elmwood court Bkly 3228
- Haskett, Bertha Willits  
4 LS-2434 Piedmont av Bkly 8341
- Haskin, Byron Conrad San Francisco  
1 LS-307 Balboa st, S F Pac 8397
- Hass, Andrew Thomas Oakland  
2 LS PreA-929 Lake Shore blvd, O Oakd 7506
- Hastings, Andrew Stanley Oakland  
2 LS PreL-2101 Telegraph av, O Lksd 1700
- Hatfield, A. Francis Hollwood  
2 LS-2332 College av Bkly 1134
- Hathorn, William Kendall San Francisco  
1 Mec-2797 Clay st, S F West 3275
- Hatton, Howard Monterey  
2 Mec-2429 Martinez av Bkly 8208
- Hauch, Wendell M. Alameda  
24 LS-2071 San Antonio av, A Ala 218
- Hauck, Evangeline Sarah Rocky Ford, Colo.  
1 LS-2237 Atherton st Bkly 4968
- Hawn, Joye Canfield Oakland  
5 Chem-1711 Euclid av Bkly 9306
- Hausser, Allan Berkeley  
18 LS PreL-2248 Telegraph av Bkly 9011
- Havener, Ethel Wilson Berkeley  
2 LS PreM-2520 Durant av Bkly 1675
- Haviland, Marion Berkeley  
1 LS-910 Oxford st Bkly 6338
- Havill, Evelyn Mildred Berkeley  
1 LS-3103 Telegraph av Bkly 6556
- Hawkins, Cecil Jerome Berkeley  
1 LS PreM-1120 Spruce st
- Hawkins, Elsa Frances Berkeley  
3 LS-1120 Spruce st
- Hawkins, Eugene Phyllis Piedmont  
2 LS-11 Monte av, P Pied 5650W
- Hawkins, James Thomas El Paso, Tex.  
1 CE-1520 Harrison st, O Oakd 9494
- Hawkins, Kenneth Clarence Exeter  
3 Chem-Conservatory, Campus Local 82
- Hawkins, Ruby Follansbee Dinuba  
14 LS PreM-1567 LeRoy av
- Hawkins, Tennessee Ione  
1 LS-449 Fifty-ninth st, O Pied 7288W
- Hawkins, Willie Elizabeth El Paso, Texas  
1 LS-1520 Harrison st, O Oakd 9494
- Hawks, Montgomery Waddell San Diego  
3 CE-2717 Hearst av Bkly 5770
- Haworth, Katherine Frothingham San Francisco  
1 LS-2509 College av Bkly 7344J
- Haydon, Glen Berkeley  
3 LS (H Music)-2121 Hearst av Bkly 881
- Hayes, Helen Carey Visalia  
1 LS-2709 Channing way Bkly 8528
- Haves, Horace H. Visalia  
2 LS-2620 Bancroft way Bkly 888
- Hayes, Margaret Calder Aberdeen, Wn.  
4 LS-2723 Durant av Bkly 9531
- Haves, Olive Genevieve Oakland  
4 LS-1078 Bella Vista av, O Mer 2761
- Haves, Wilda Elizabeth Porterville  
2 LS-2457 Webster st Bkly 3807W
- Hayford, Clarence Gustavus Sacramento  
1 LS-2433 Ward st Bkly 2251W
- Hayne, Benjamin Stiles, Jr. San Francisco  
2 LS PreA-2507 Hilgard av Bkly 40
- Haynes, Eugenie Irene Berkeley  
12 LS-2430 College av Bkly 1144J
- Haynes, Evan Berkeley  
2 LS-1532 Scenic av Bkly 3232J
- Hays, Alice Laverne Clovis  
1 LS-2435 Haste st Bkly 2279W
- Hays, Walter Dyer Lander, Wyo.  
1 Com-2223 Atherton st Bkly 6680

- Hazzard, Andrew McDonald Whittier  
 \*6 Min-2625 Hearst av Bkly 7614
- \*Heacock, Lyman Dunlap San Francisco  
 4 LS-2620 Bancroft way Bkly 888
- Head, Elizabeth Wheeler San Francisco  
 \*2 LS-2741 Hillegass av Bkly 1720W
- Heafey, Irma Margaret Oakland  
 1 LS-599 Thirtieth st, O Oakd 4120
- Healy, Dorothy Laurence Willits  
 3 LS (H Hist)-2629 Haste st Bkly 3287
- Hedene, Edwin Oakland  
 2 LS PreA-972 Sixty-second st, O
- Hedger, Harold Everett Long Beach  
 1 CE-2605 Durant av Bkly 552
- Hedgspeth, Robert Henry Corning  
 4 Agr-University Farm, Davis
- Heagler, Fred Didier Vallejo  
 1 LS PreM-2617 Durant av Bkly 373
- Heger, Mary Lea Tiburon  
 2 LS-2405 Prospect st Bkly 4420
- Hegarty, Lillian Berkeley  
 2 LS-2310 Russell st Bkly 8607W
- Heggie, Gabrielle Marguerite Sonoma  
 1 CE-2605 Durant av Bkly 3287
- Heginbotham, Persa Salt Lake City, Utah  
 2 LS-2627 Channing way Bkly 6928W
- Helmes, Clara Frances Valley City, N. D.  
 \*1 LS-2422 Channing way Bkly 4666
- Heintz, Howard Walden Los Angeles  
 4 Com-2647 Durant av Bkly 102
- Heinz, Norman Charles Berkeley  
 1 Com-2724 Alcatraz av Pied 430W
- Heise, Anna Angeline Gardnerville, Nev.  
 4 LS-2520 Cedar st Bkly 2314
- Heitsmith, William Jennings Santa Rosa  
 1 Mec-1728 Arch st Bkly 965
- Helgesson, Henry Theodore Portland, Ore.  
 4 Min-2218 Union st
- Heller, Hattie Marie San Diego  
 1 LS-2721 Haste st Bkly 8800
- Hellman, Isaias Warren, III San Francisco  
 1 Com-Carlton Hotel Bkly 5964
- Hellmers, Henry Diedrich Los Angeles  
 \*1 Chem-1919 Bancroft way
- Helm, Gertrude Elizabeth La Jolla  
 1 LS PreA-2417 LeConte av Bkly 5027
- Helm, Mildred Margaret La Jolla  
 2 LS-2417 LeConte av Bkly 5027
- Helmer, Edith Twin Falls, Idaho  
 2 LS-2341 Ellsworth st Bkly 2782J
- Helmer, Ruby Twin Falls, Idaho  
 \*2 LS-2431 Ellsworth st Bkly 2782J
- Hemme, Grace Berkeley  
 \*1s LS-2353 Prospect av Bkly 2039
- Henderson, Clifford Farley Berkeley  
 2 Com-2032 Durant av Bkly 8829J
- Henderson, Ellae Lakeport  
 4 LS-2816 Derby st Bkly 1716
- Henderson, Floyd Lucius Bakersfield  
 2 LS PreA-1938 Bonita av
- Henderson, George Logan, Jr. Berkeley  
 2 CE-1730 La Loma av Bkly 8716
- Hendricks, Marjorie Ethel Madison, Wis.  
 \*3 LS-1610 Arch st Bkly 5990W
- Hendrv, Leslie Center San Francisco  
 1 Mec-2448 Folsom st, S F Men 5706
- Henning, Berthel Henry Sebastopol  
 1 LS PreM-282 Eighth st, O Oakd 7285
- Henrici, Mignon Keith Alameda  
 \*1 LS-2124 Eagle av, A Ala 1097
- Henrici, Myrtle Ramon Alameda  
 3 LS PreA-2725 Channing way Bkly 7950
- Henry, Flora Alice Berkeley  
 1s LS-2713 Parker st Bkly 7485J
- Henry, Leonard Wilshier Portersville  
 3 LS-2713 Derby st Bkly 8260
- Henry, Lucille Sacramento  
 3 LS (H Econ)-2421 LeConte av Bkly 3062
- Henry, Rodney William Napa  
 4 CE-2334 Durant av Bkly 8485
- Hensel, George Carl San Francisco  
 \*4 LS PreM-Hotel Shattuck Bkly 7300
- Henselman, George Boord Medford, Ore.  
 1 Com-2625 Hearst av Bkly 7614
- Herdeg, Harold Lush Riverside  
 4 Agr-Oxford apts
- Hereth, Helen Berkeley  
 \*1 LS-1574 LeRoy av Bkly 7967W
- Heringer, Lawrence William Sacramento  
 1 CE-2618 Durant av Bkly 8858
- Herman, Fred Weld San Jose  
 \*2 Mec-2228 Dana st Bkly 1053
- Herman, Samuel Willard Oakland  
 1 LS PreM-1020 Brush st, O Lksd 573
- Hermle, Zoe Oakland  
 3 LS-3128 Telegraph av, O Pied 1596W
- Herreras, Max Manuel Los Angeles  
 \*1 Mec-4329 California st, S F
- Herrick, Emerson Brown San Francisco  
 4 Agr-University Farm, Davis
- Herrick, Harold Lewis Salt Lake City, Utah  
 4 LS and 1 Juris-1539 Spruce st Bkly 5346J
- Herrick, Hugh Nathan Concord  
 4 Mec-2614 Dwight way Bkly 1276
- Herrington, George San Francisco  
 3 LS PreL-1529 Sutter st, S F West 28
- Herrstrom, Sten Gunnar Malmö, Sweden  
 2 LS PreM-2546 Chilton way Bkly 691J
- Hersch, Walter William August Watsonville  
 2 LS-2110 Santa Clara av, A Ala 157
- Herscovitz, Isie James San Francisco  
 2 LS PreL-2249 College av Bkly 7486
- Hersprung, Melville Harold Oakland  
 \*4 Agr-University Farm, Davis
- Hertzmann, Anna Bayer San Francisco  
 1 Com-592 Castro st, S F Valen 5288

Herve, Edward	Los Angeles	Huntington Beach
4 LS and 1 Juris-1815 Highland pl	Bkly 1682	Bkly 5650
Herz, Ernestine	Alameda	Los Angeles
4 LS (H French)-1815 Buena Vista av.		Bkly 2094W
A	Ala 3457	Salinas
Hease, Louise Lucinda	Boulder Creek	San Diego
3 LS-2287 Piedmont av	Bkly 8682W	Oakd 4433
Hesselberg, Edwin Harold	Winters	Napa
4 CE-2115 Delaware st	Bkly 7535	Bkly 204
Hestorff, Percy Clarence	Salinas	Santa Barbara
2 LS-2101 Telegraph av, O	Lkad 1700	Bkly 6475
Hewitt, Wallace William	Stockton	Berkeley
1 Agr-2610 Durant av	Bkly 7804	Bkly 7300
Hevneman, Paul	San Francisco	Hale-on
2 Com-2305 Bancroft way	Bkly 7461	1 Com-521 Twenty-ninth st, O Lkad 3089
Hevnemann, Ruth Marian	Belvedere	Oakland
4 LS-2400 Durant av	Bkly 7954	
Hibberd, Elizabeth Andrews	Oakland	
2 LS-1609 Twenty-eighth av, O		
	Frvl 1121	
Hickev, John Calvin	Pocatello, Idaho	
2 LS-2340 Piedmont av	Bkly 3158	
Hickev, Robert Ferdinand	Gazelle	
21 Min-2333 College av	Bkly 1722	
Hickman, Helene	San Francisco	
2 LS-2734 Russell at	Bkly 5432J	
Hicks, Edward Willis	San Francisco	
1 LS-667 Fourth av, S F	Pac 5968	
Hicks, George Marco	Sacramento	
13 Agr-2723 Forest av	Bkly 8997W	
Hiestand, Herbert Harold	Berkeley	
4 Min-2529 Hearst av	Bkly 40	
Higgins, Evan Roy	Healdsburg	
2 LS-1523 Walnut st		
Higgins, Lawrence Daniel	Denver, Colo.	
3 LS PreL-2226 Chapel at	Bkly 879	
High, Alexander Z., Jr.	San Francisco	
2 Mec-2531 Channing way		
Highley, Blanche Marie	San Francisco	
1 LS-Cecil Hotel, S F	Papt 180	
High, Edith May	Berkeley	
1 LS-1822 Felton at	Pied 2325J	
Higman, Margaret Adel	Los Angeles	
2 LS-1534 Arch st	Bkly 2230	
Higson, John Wayne	Pocatello, Idaho	
1 Com-2501 Ridge rd	Bkly 1335	
Hildebrand, Walter Charles	San Francisco	
3 Chem (H)-771 Francisco st, S F		
	Papt 1939	
Hill, Albert Edward	Oakland	
4 Agr-University Farm, Davis		
Hill, Alexander Blake, Jr.	Petaluma	
2 LS PreL-2607 Hearst av	Bkly 5913	
Hill, Bruce Campbell	Oakland	
3 Agr-University Farm, Davis		
Hill, Frank LeRoy	Berkeley	
4 Mec-21194 Russell st	Bkly 4788W	
Hill, George Mitchell	Los Angeles	
5 CE-2701 Hearst av	Bkly 2421	
Hill, Hilda		
1 LS-2417 LeConte av		
Hill, Phoebe Hearst		
4 LS-1629 Euclid av		
Hill, Walter Leonard		
3 Mec-2410 College av		
Hillerman, Pauline Marion		
1 LS-472 Jean st, O		
Hillman, Dorothy Johanna		
3 LS-2749 Dwight way		
Hillman, Harry Walter		
2 Mec-2222 Bancroft way		
Hillman, Loren Langmade		
1 LS-Shattuck Hotel		
Hillvard, Sydney Newnes		
1 Com-521 Twenty-ninth st, O		
Hilton, Elton Monroe		
2 Agr-2318 Bancroft way		
Hilton, Jules Verne		
2 LS-2647 Durant av		
Himbert, Arthur		
1 Com-2814 College av		
Himmah, Arthur Thomas		
12 Mec-2212 Bancroft way		
Hinch, Vera		
4 LS-2727 Regent st		
Hinev, William Dodson		
4 CE-2320 Howe st		
Hinkle, George Henry		
1 LS-858 Eighteenth st, O		
Hinkley, Alice Rebecca		
1 LS-2330 Haste st		
Hinman, Frank William		
12 Agr-2442 Piedmont av		
Hinsdale, George Spencer		
1 CE-50 The Uplands		
Hirschfelder, Erwin Herbert		
4 Com-2318 Telegraph av		
Hirst, Harold Kelso		
1 Mec-1628 Walnut st		
Hiscox, Merrill		
1 LS-81 Plaza dr		
Hiscox, Richard Griest		
1 Mec-81 Plaza dr		
Hitchcock, John Elbert		
1 Com-2712 Dana st		
Hittle, Dorothy Ribble		
1 LS-1619 Walnut at		
Hitzeroth, Lorenz Charles		
2 Mec-3738 Twenty-second st, S F		
Hjelte, Carl George		
4 LS-597 Fairmount av, O		
Hobart, Helen Elizabeth		
1 LS-427 Twenty-ninth st, O		
Hobbs, Vincent Cecil		
4 Com-2528 Ridge rd		
Hobert, Mabel Henrietta		
2 LS-5562 Taft av, O		
Hobron, Gladys Gray		
4 LS-2610 Warring st		

# Undergraduate Students

117

Hodges, Albert Jeffries	Vallejo	Berkeley
12 Mec-2617 Durant av	Bkly 873	Bkl 3755
Hodges, Joel Brower	Los Angeles	Hayward
3 CE-2521 Durant av	Bkly 3437	Pied 3155
Hodgkin, Philip	Fresno	Los Angeles
8 LS PreM-2647 Durant av	Bkly 103	Bkly 6744
Hodgson, Pauline	San Francisco	Berkeley
1 LS-903 Pine st, S F	Frkn 54	
Hoefer, Margaret	Fresno	Bkly 7461
3 LS-2542 Durant av	Bkly 3873	Berkeley
Hoelsken, Victor Joseph	Oakland	
1 LS PreL-985 Seventh st, O	Oakd 8844	
Hofer, Florence Amelia	Salem, Ore.	
2 LS-2732 Channing way	Bkly 9317	
Hoffman, Miriam Estelle	Oakland	
2 LS-415 Walsworth av, O	Oakd 9223	
Hoffman, Verne W.	Corona	
4 Agr-2536 Bancroft way	Bkly 7997	
Hoffman, Walter Carl	Steger	
2 LS-640 Bay av, Steger	Bkly 5576	
Hogaboom, Henry Raymond	San Diego	
4 Mec-2646 Dwight way	Bkly 4104	
Hogan, Ora May	Santa Monica	
1 LS-2420 College av	Bkly 8391	
Hobenthal, William Dalton	Turlock	
3 Mec-2428 College av	Bkly 4748	
Hoisholt, Frederica	Napa	
1 LS-2627 Hearst av	Bkly 4009	
Holbrook, James Edward	Berkeley	
2 LS PreA-2906 Benvenue av	Bkly 611J	
Holden, Geraldine	Idaho Falls, Idaho	
1 LS-2345 Ellsworth st		
Holden, Josephine Wilson	Collierville, Tenn.	
3 LS-2526 Ridge rd	Bkly 775J	
Holder, Grace Alice	San Francisco	
2 LS-1180 Jackson st, S F	Pstpt 1059	
*Holland, Abner William	Berkeley	
4 Agr-California Hall		
Holland, Elanore Marian	Berkeley	
4 LS-2540 Buena Vista way	Bkly 4178J	
Holland, Rufus Hurn	Hemet	
24 Agr-2211 Union st	Bkly 3233W	
Holland, Ruth Wanell	Berkeley	
4 LS-2540 Buena Vista way	Bkly 4178J	
Hollenbeck, Belle	Lebec	
2 LS-2059 University av		
*Hollenbeck, Irene Cynthia	Pasadena	
4 LS-2059 University av	Bkly 2524	
Holler, Doris Dorathia	San Francisco	
1 LS-2429 Channing way	Bkly 4648	
Holler, Hilda Jane	Oakland	
2 LS-549 Sixty-sixth st, O	Pied 5914J	
Hollingshead, Ray Bates	Santa Barbara	
3 LS-2001 Allston way	Bkly 6710	
Hollingsworth, Hazel Helen	San Francisco	
4 LS (H Engl)-2630 Haste st	Bkly 7153W	
Hollis, Mildred	Berkeley	
1 LS-1415 La Loma av	Bkly 8044W	
Hollis, Ruth	Berkeley	
1 LS-1415 La Loma av	Bkly 8044W	
Hollister, Irvin Wilson		
21 Agr-31 High Court		
Hollister, Martha		
3 LS-4035 Howe st, O		
Hollzer, Marc		
4 Mec-2684 Bancroft way		
Holm, Aila Bernice		
4 LS (H Ger)-2305 Bancroft way		
Holm, Francis Carl		
2 Mec-2126 Grant st		
Holm, Hugo Ferdinand	Atwater, Minn.	
3 Mec-1355 Fifth av, S F		
Holman, Earl Leigh	Farmington	
3 Mec-2717 Derby st	Bkly 7178W	
Holman, Francis Christopher	Tuolumne	
3 Mec-1422 Oxford st	Bkly 3470	
Holman, Helen	San Francisco	
1 LS-2905 Piedmont av	Bkly 2398W	
Holmes, Albert Earl	Esparto	
4 Agr-University Farm, Davis		
Holmes, Aubrey Foster	Oakland	
3 LS PreM-2426 Virginia st	Bkly 3472	
Holmes, Harry Lloyd	Esparto	
2 Agr-2228 Dana st	Bkly 1053	
Holmes, Katherine	Berkeley	
2 LS PreM-2535 Hillegass av		
Holmes, Paul Farnam		
21 Agr-1118 Oxford st		
Holmes, Virginia		
2 LS-1700 Euclid av		
Holsinger, Paul Harold		
3 LS-2332 College av		
Holt, John Ruskin		
23 Com-2400 Bancroft way		
Holt, Permelia Catharine		
3 LS-2421 LeConte av		
Holt, William Knox		
3 Mec-2251 College av		
Honeycutt, Everett Elmer		
3 Agr-Hotel Berkeley		
Honeywell, Charles Francis		
1 LS-3132 College av		
Honeywell, Margaret Wilson		
3 LS-3132 College av		
Hook, Fredrick Malcolm		
1 Min-69 Santa Clara av, O		
Hook, James Stanley		
22 Com-2418 College av		
Hook, Mildred Adele		
2 LS-1345 Arch st		
Hooper, Dorothy		
4 LS-2317 Parker st		
Hooper, Helene Esther		
4 LS-2317 Parker st		
Hooper, Herbert D.		
1 Chem-2223 Chapel st		
Hooper, Leon Leonard		
2 Agr-2204 Woolsey st		

- Hooper, Lucile Santa Barbara  
4 LS (H Anthrop)-2710 Channing way Bkly 9520
- Hooper, Ralph Lincoln Escondido  
3 Agr-2427 Durant av Bkly 4521J
- Hopkins, Edna Mae Redondo Beach  
1 LS-1211 Spruce st Bkly 5843
- Hopkins, Harry Lester Berkeley  
12 Mec-1376 Hearst av
- Hopkins, Robert Sydney Oakland  
1 LS-5398 Belgrave ter, O Pied 6459
- Hopping, Dorothy Berkeley  
1 LS-1943A Rose st Bkly 5989J
- Hopping, Forest Lindsay  
1 LS-1943A Rose st Bkly 5989J
- Horel, Ruth Frances Arcata  
4 LS-2400 Piedmont av Bkly 5224
- Horne, Pauline Innes Berkeley  
4 LS PreL-5256 James st, O
- Hornung, Josephine Isabelle Manti, Utah  
12 LS-2232 Haste st Bkly 149W
- Horsley, Ethel Knudson Brigham, Utah  
1s LS-2276 Shattuck av Bkly 8300
- Horsley, Shirley Clements Brigham, Utah  
4 LS PreA-2276 Shattuck av Bkly 8300
- Horstman, Edith Caroline Berkeley  
2 LS-2241 Virginia st Bkly 2647
- Horton, E. Ray Arcata  
1 Com-2617 Durant av Bkly 373
- Horton, Florence Berkeley  
1 LS-2816 Hillegass av Bkly 3144
- Horvitz, Rose Richmond  
4 LS (H Engl)-2509 Regent st Bkly 3606J
- Hosford, George Newton Riverside  
3 LS PreM-2701 Hearst av Bkly 2421
- Hosford, Helen Rebekah Stockton  
1 LS-2531 Ridge rd Bkly 6485
- Hoskins, William Murice Woodland  
2 LS-2309 Ellsworth st Bkly 1118
- Hoskinson, Albert Jay Healdsburg  
2 CE-2534 Bancroft way Bkly 2596J
- Hotaling, George Henry San Francisco  
4 LS and 1 Juris-1815 Highland pl Bkly 1682
- Houlahan, Marie Helena Seattle, Wash.  
3 LS-3744 Sixteenth st, S F Park 4455
- House, Alvin Kinnear Spokane, Wash.  
1 Com-1730 La Loma av Bkly 8716
- House, Claude Williams Spokane, Wash.  
3 Chem (H)-1730 La Loma av Bkly 8716
- House, Ellis Henry Santa Ana  
3 CE-2248 Telegraph av Bkly 9011
- House, Margaret Eddy Mill Valley  
3 LS (H Engl)-2723 Durant av Bkly 9531
- Houston, Albert Joshua Rembold Palo Alto  
1 LS-2529 Hearst av Bkly 40
- \*Houston, Howard Alexander Chico  
4 Agr-2646 Dwight way Bkly 4104
- Houston, Kenneth Ward Tempe, Ariz.  
4 Mec-2701 Hearst av Bkly 2421
- Houston, Leo Charles Truckee  
1 Mec-2204 Dwight way Bkly 8856
- Houston, Marion Edna Berkeley  
1s LS-1607 Scenic av Bkly 3520J
- Hovgaard, Irvin Christian Eureka  
1 LS-1706 Walnut st Bkly 6731W
- Howard, Anita Oakland  
2 LS-232 Twenty-ninth st, O Oakd 2750
- Howard, Averett Sacramento  
2 LS PreL-2236 Durant av
- Howard, Azile Lakeport  
3 LS-2328 Bowditch st Bkly 6201J
- Howard, Bruce Oakland  
2 Chem-2607 Hearst av Bkly 5913
- Howard, Eleanor Mary Des Moines, Iowa  
1 LS-2915 Benvenue av Bkly 8612J
- Howard, Euvelle Downen Lakeport  
4 LS (H Hist)-2701 Hearst av Bkly 2421
- Howard, Harlan Hilton Des Moines, Iowa  
1 LS-2614 Dwight way Bkly 1276
- Howard, Herbert Sanford, Jr Berkeley  
1 LS-1012 Spruce st Bkly 752
- Howard, Hubert L. Athens, Ohio  
2 Com-2618 Durant av Bkly 8858
- Howard, Irene Los Angeles  
1 LS-2627 Hearst av Bkly 3229
- Howard, Ora Berkeley  
3 Com-2545 Hillegass av Bkly 577W
- Howard, Placie Margaret Sacramento  
1 LS-2236 Durant av
- Howarth, Winslow Berkeley  
2 LS-2815 Dwight way Bkly 4026
- Howe, Arnold Watlington Goldfield, Nev.  
4 LS (H Chem)-1711 Euclid av Bkly 9396
- Howe, Gwen Hanford  
1 LS PreM-2526 Hilgard av Bkly 1441
- Howe, Norene Upper Lake  
3 LS-1700 Euclid av Bkly 1625
- Howell, Cletus Ignatius Bakersfield  
3 Com-2421 Fulton st
- Howell, Ethel Berkeley  
2 Agr-2811 Claremont blvd Bkly 5676W
- Howells, Christine Belvedere  
12 LS PreA-1732 Highland pl
- Howells, Hamilton Richmond Belvedere  
1 LS-1732 Highland pl Bkly 5103
- Howells, Helena Belvedere  
1s LS-1732 Highland pl Bkly 5103
- Howells, Merriam Joseph Belvedere  
2 LS-1732 Highland pl Bkly 5103
- Howson, James Milo Salt Lake City, Utah  
4 LS and 1 Juris-2432 College av Bkly 6102J
- Hoxie, Dorothy Ellen Los Angeles  
1 LS-2417 LeConte av Bkly 5650

*Hoyt, Elisabeth	Oakland	Hulbert, Ruth Faustina	Redlands
4 LS-407 Fairmont av, O	Oakd 2840	3 LS-2519 Hillegass av	Bkly 477
Hoyt, Hubbard Spencer	Pacific Grove	Hulen, Reba Callaway	San Francisco
4 LS (H Anat) and 1 Med-2112 Durant	Bkly 7751	*1 LS-2635 Broderick st, S F	Flnr 1177
Hoyt, Josephine	Berkeley	Hullin, Carlton D.	Alameda
3 LS-3004 Hillegass av	Bkly 4720J	1 LS-1711 Central av, A	Ala 1819
Hoyt, Mary Celestia	Pacific Grove	Hull, Eugene Field	Berkeley
4 LS-2112 Durant av	Bkly 7751	*2 Agr-2216 Blake st	Bkly 8080
Hoyt, Werner Fletcher	Oakland	Hulting, Gladys Amelia	Berkeley
3 LS PreM-6150 Mendocino av, O	Pied 3639	2 LS-2709 Channing way	Bkly 8528
Hruska, Harold Howard	San Diego	Hulting, Walter John	Berkeley
*1 LS PreL-Hotel Shattuck	Bkly 7300	3 LS PreA-2601 Durant av	Bkly 23
Hubbard, Albert Sheridan	Oakland	Humiston, Beth	Long Beach
1 Com-201 Santa Rosa av, O	Pied 456	*1 LS-2636 Hilgard av	Bkly 4397
Hubbard, Bernice	Berkeley	Hummel, Donald Monroe	Oxnard
*3 LS-2959 Piedmont av	Bkly 7055	*1 LS-2617 Durant av	Bkly 873
Hubbard, Kathryn	Berkeley	Hummel, Lolah Irene	Azusa
*4 LS-2959 Piedmont av	Bkly 7055	2 LS-2542 Durant av	Bkly 3873
*Hubbard, Marion Wright	San Fernando	Hummel, Rosely	San Francisco
4 Agr-2214 Union st	Bkly 2483	*1 LS-2833 Webster st, S F	West 2580
Hubbell, Irving Denton	Los Gatos	Humphrey, Alice Maud	Berkeley
2 Min-2001 Allston way	Bkly 6710	3 LS-2600 Warring st	Bkly 4607W
Huberty, Martin Richard	San Andreas	Humphrey, Hiram Brown	Portland, Ore.
3 Agr-2637 Virginia st	Bkly 949	3 Min-2430 Channing way	Ross
Hubech, Judith Lisle	San Francisco	Hund, Irene	4 LS (H Bot)-2627 Hearst av
3 LS-1045 Broderick st, S F	West 5852	Hunkin, Lota Maya	San Francisco
Huddleston, William Hughes	Merced	2 LS-1153 Bush st, S F	Frkn 834
*2 Agr-2531 Channing way	Bkly 7068W	Hunt, Faith Imogene	Berkeley
Hudson, James William	San Francisco	4 LS-2229 Chapel st	Bkly 1642
2 Com-2416 College av	Bkly 8476J	Hunt, Gertrude Elizabeth	Berkeley
Hudson, Maude Frances	Hermosa Beach	4 LS-1736 Milvia st	Bkly 9033J
2 LS-1736 Oxford st	Bkly 7247	Hunt, Grant James	Piedmont
Hudson, William Urquhart	Inglewood	3 Agr-University Farm, Davis	
2 Mec-2600 Durant av	Bkly 2593	Hunt, Irene Mildred	Roseburg, Ore.
Huey, Ernest W.	National City	4 LS PreM-2306 Virginia st	Niles
*2 Com-556 Fortv-first st, O	Pied 6757J	Hunt, Ronald Walter	Bkly 1276
Huffaker, Lauretta	Oakland	Hunt, William Garrett	Oakland
1 LS-3201 Davis st, O	Frvi 1684J	4 LS and 1 Juris-2752 Grove st, O	Oakd 9098
Huffaker, Martha Edwina	Oakland	Hunter, Ethel Elizabeth	Oakland
4 LS (H Ger)-4100 Penniman av, O		1s LS-868 Sixtieth st, O	Pied 2021
Huffer, Truman Ray	Alpaugh	Hunter, Harold James	Chillv, Idaho
*3 Com-2218 Union st	Bkly 2967	*1 LS PreL-1726 Euclid av	Bkly 6706
Huffman, Clara Gertrude	Butte, Mont.	Hunter, Howard Vincent	San Francisco
2 LS-2710 Channing way	Bkly 9520	3s Mec-1560 Fell st, S F	Flnr 1100
Huffman, Ruth Scott	Lodi	Hunter, Hugh Allen	Bloomfield
2 LS-2328 Bowditch st	Bkly 6201J	4 LS-1734 Walnut st	
Huggins, Dorothea Harriet	Berkeley	Hunter, Lacy Gorin	San Francisco
4 LS-2815 Kelsey st	Bkly 413W	1 LS PreM-1110 Page st, S F	Park 6203
Huggins, Maurice Loyal	Berkeley	Hunter, Lois Georgia	Eureka
2 Chem-2815 Kelsey st	Bkly 413W	*1 LS-2624 Virginia st	Bkly 3663W
Hughes, Anne Elizabeth	Denmark, Ore.	Huntington, Emily Harriet	San Francisco
*1 LS-2542 Durant av	Bkly 3873	4 LS (H Econ)-2725 Channing way	Bkly 7950
Hughes, Constance Harriet	Visalia	Huntington, Fred William	San Francisco
1 LS-1648 Euclid av	Bkly 2094J	*2 Mec-1424 Forty-ninth av, S F	
Hughes, William Conrad	Oakland	Huntley, Crutcher William	East Auburn
1 LS PreL-801 Thirty-second st, O	Pied 659	1 LS-2522 Ridge rd	Bkly 5950
Hulbert, May	Del Rey		
2 LS-2519 Hillegass av	Bkly 477		

- Hurd, Alan Thomas Escondido  
8 LS-2427 Durant av Bkly 4521J
- Hurlburt, Genevieve Louise Galesburg, Ill.  
1 LS-2318 Telegraph av Bkly 5964
- Hurley, Irene Estelle Oakland  
4 LS (H Span)-3537 Brookdale av, O
- Hurley, Louise Marie Oakland  
2 LS-3537 Brookdale av, O
- Hurwitz, Maurice New York, N. Y.  
3 Chem-2120 Kittredge st Bkly 2090
- Hussey, Charles Edward Berkeley  
3 Agr-1783 Milvia st Bkly 7549
- Hussey, Edward Bright, Jr. Berkeley  
1 LS PreA-1738 Milvia st Bkly 7549
- Hussey, Edward Knight San Francisco  
8s Min-1973 Jackson st, S F Frkn 2192
- Hussey, J. Gordon Berkeley  
21 LS PreL-1614 Walnut st Bkly 5004
- Huston, Arthur Craig Woodland  
1 LS PreM-2522 Ridge rd Bkly 5950
- Huston, Miller Roe Pomona  
2 Mec-2330 College av Bkly 5098
- Hutchison, Bernice O. Fresno  
1 LS-2821 Bancroft way Bkly 1765
- Hutchison, Olive Edith Los Angeles  
3 LS-2623a Parker st Bkly 2428J
- Huxley, Marjorie Berkeley  
3 LS PreM-2957 Piedmont av Bkly 7211
- Hyatt, Estella Mary Pasadena  
1 LS-2500 Bancroft way
- Hyatt, Eugene Pooler Los Angeles  
3 Agr-University Farm, Davis
- Hyde, Harold Anthony Watonsville  
4 LS (H Hist)-2614 Dwight way Bkly 1276
- Hyde, Orra Crosby Lincoln  
2 LS-2251 College av Bkly 9107
- Hyde, Sylvia Merle Dixon  
1 LS-2334 Bowditch st Bkly 6201J
- Hyman, Alvin Davison San Francisco  
1 LS PreL-2617 Durant av Bkly 373
- Hyman, Herman Edward Fort Bragg  
2 LS PreM-2416 Durant av Bkly 2850W
- Hyman, Joseph Leo San Francisco  
3 LS PreL-Glengary apts Bkly 7667
- Iddings, Carl San Francisco  
3 Chem (H)-Chemistry bldg, Campus
- Idso, Alma Keldron, So. Dak.  
1 LS-5427 Miles av, O Pied 1705
- Iki, George S. Berkeley  
4 LS and 1 Med-1430 Milvia st Bkly 2155
- Iki, May Riki Berkeley  
1 LS-1430 Milvia st Bkly 2155
- Iliohan, Henrica Oakland  
1 LS-1029 Fifty-fifth st, O Pied 5509W
- Illig, Margaret Mary Newberg, Ore.  
1 LS-542 Twenty-fifth st, O Oakd 217
- Imrie, John Andrew San Francisco  
3s LS-1042 Spruce st Bkly 3168
- Inch, Richard Norman Sonoma  
4 LS-2605 Durant av Bkly 552
- Ingram, Florence Fletcher Vallejo  
3 LS-1904 Virginia st Bkly 1013W
- Ingram, Selena Pope Los Angeles  
1 LS-2728 Durant av Bkly 9531
- Ingram, William Stuart Venice  
1 LS-1920 La Loma Park Bkly 1086W
- Inman, William Elliott Norwalk  
4 Min-2218 Union st Bkly 2967
- Inskeep, Lorenzo Dow Oakland  
2 LS PreM-6449 Colby st, O
- Ireland, Esther Los Angeles  
3 LS-2247 Ashby av Bkly 8899W
- Irvin, Reuben John Angels Camp  
1 LS PreL-2316 Bowditch st Bkly 6504
- Irvine, William McCalla Salinas  
4 Com (H Econ)-2416 College av Bkly 8476J
- Irving, Leslie William Oakland  
1 LS PreL-3503 Market st, O Pied 1668W
- Irving, Livingston Dilsen Berkeley  
2 Agr-1322 Shattuck av Bkly 994
- Isaac, Winona Estella Corning  
1 LS-2718 Haate st Bkly 2148
- Isaacs, Florence Hollywood  
3 LS (H Engl)-2725 Channing way Bkly 7950
- Isaacson, Chester Leroy Marshfield, Ore.  
2 LS PreL-2646 Dwight way Bkly 4104
- Isaacson, Leslie Alphonse Marshfield, Ore.  
4 LS and 1 Juris-2646 Dwight way Bkly 4104
- Ishii, Juzaburo Los Angeles  
3 LS PreA-2308 Virginia st Bkly 6441
- Isom, Letha Belle Crowa Landing  
3 LS-2525 College av Bkly 5596W
- Isom, Lillie Crowa Landing  
1 LS-2525 College av Bkly 5596W
- Israelian, Ardashes Fresno  
2 LS-2405 Fulton st Bkly 8895J
- Itano, Masao Mill Valley  
4 Agr-2308 Virginia st Bkly 6441
- Iverson, George Hager Union  
4 Agr-2616 Virginia st Bkly 6716
- Jack, Ethel Vera Lodi  
1 LS-2334 Bowditch st Bkly 1358W
- Jackson, Bernadine Sac City, Iowa  
2 LS-2624 Channing way Bkly 3827W
- Jackson, Clarence Taylor Portland, Ore.  
2 Com-1730 La Loma av Bkly 8716
- Jackson, Eleanor Violet San Francisco  
3 LS (H Hist)-1511 Masonic av, S F Park 2806
- Jackson, Elmer Sidney Alameda  
2 CE-2511 Lincoln av, A Ala 274
- Jackson, John Putnam, III Napa Soda Springs  
3 LS-2647 Durant av Bkly 102



# Undergraduate Students

121

Jackson, Margaret Agnes	Berkeley	Jee, Henry Quong	Detroit, Mich.
3 LS (H Hist)-2708 College av		1 LS PreM-848 Grant av, S F	China 969
	Bkly 3887	Jeffers, Hamilton Moore	Pasadena
Jackson, Mildred	Oakland	4 LS (H Astron)-2248 Telegraph av	
3 LS PreA-2260 Thirty-eighth av, O			Bkly 9011
Jacobi, Janet Regina	San Francisco	Jeffry, Demetrio Eugene	Healdsburg
1 LS-2855 Pacific av, S F	Flmr 528	4 LS (H Anat) and 1 Med-2627 Ridge	
Jacobs, Ada Mildred	Alameda	rd	Bkly 2541
13 LS-1518 Bay st, A	Ala 1431	Jemm, Otto Herman	San Martin
Jacobs, Albert Howard	San Francisco	1 Com-1730 La Loma av	Bkly 8716
2 Com-20 Palm av, S F	Pac 1928	*Jenkins, Anne Margaret	Hanford
Jacobs, Doris Claire	Oakland	4 LS-2542 Durant av	Bkly 3878
1 LS-546 E Eleventh st, O	Mer 3292	Jenkins, Harry Loveless	Pocatello, Idaho
Jacobs, Irene Gertrude	Alameda	1 Com-2539 Durant av	Bkly 2234
1 LS-839 Laurel st, A	Ala 2231W	Jenkinson, Oliver Thomas	Hanford
*Jacobsen, Einar William	Oakland	1 Agr-2227 Dana st	Bkly 1652W
4 LS-651 Alcatraz av, O	Pied 8192W	Jenkinson, Robert Harry	Hanford
Jacobson, Evans Chick	Onawa, Iowa	13 Agr-2227 Dana st	Bkly 1652W
1 LS PreA-Architecture bldg, Campus		Jenks, Clarence Arthur	Berkeley
Jacoby, Harold Samuel	Oakland	2 LS-2533 Chilton way	Bkly 6267
4 LS and 1 Juris-670 Thirty-fourth st, O	Pied 2167J	Jenks, Elizabeth May	Berkeley
Jachne, Anna Louise	San Francisco	1 LS-2533 Chilton way	Bkly 6267
1 LS-867 Diamond st, S F	Msn 6550	Jennings, Eleanor Kenyon	Oakland
Jaehning, George Robert	Fortuna	3 LS-758 Fifty-sixth st, O	Pied 4181J
1 Agr-2521 Channing way	Bkly 5831	Jensen, Andrew Martin	Fresno
Jaffa, Edward Moss	Berkeley	4 CE-2714 Alcatraz av	Pied 3404
3 Com-2637 Virginia st	Bkly 949	Jensen, Earl Theodore	Solvang
Jaffe, Charlotte Leah	Sacramento	2 Agr-2222 Bancroft way	Bkly 6475
1 LS-2524 LeConte av	Bkly 867W	Jensen, Edna Caren	Martinez
Jakway, Leigh Closser	Berkeley	3 LS (H Hshld Art)-2328 Dwight way	
1 LS PreL-2236 Telegraph av			Bkly 1357J
	Bkly 8030W	Jensen, Gretta Bremer	Laton
*James, John Thomas	San Francisco	3 LS-2226 Chapel st	Bkly 879
4 LS-2606 Dwight way	Bkly 139	Jensen, Hilbert Canfield	Santa Cruz
James, Margarita Adelina	Alameda	12 Min-2500 Bancroft way	Bkly 1848
1 LS-2204 Encinal av, A		Jensen, Louise Gretchen	Berkeley
Jameson, John Mvron	Bakersfield	4 LS-1635 La Loma av	Bkly 5396W
2 LS PreL-2200 Piedmont av	Bkly 6760	Jensen, Marius N.	Fresno
Jameson, Marin S.	Berkeley	12 Com-2529 College av	Bkly 7875W
4 LS-2508 Haste st	Bkly 2075	Jensen, Martha	Arlington, Wash.
Jamevson, Bruce	La Junta, Colo.	4 LS (H Gr Art)-2634 College av	
4 CE-2208 Durant av	Bkly 3170		Bkly 1497
Janney, Frederic Fuller	Santa Barbara	Jensen, Mary Allie	Laton
4 Agr-University Farm, Davis		2 LS-2226 Chapel st	Bkly 879
Janney, Philip Wood	Santa Barbara	Jensen, Ruth Helen	Los Angeles
3 Com-2425 LeConte av	Bkly 4334	2 LS-1423 Walnut st	Bkly 6856
January, Lora Katherine	Concord	Jensen, Ward Charles	Racine, Wis.
1 LS-2417 LeConte av	Bkly 5650	4 Agr-2205 E Twenty-second st, O	
Janzen, Katharina Adelaide	Fairmead	Jessen, Frances Manila	Anderson
2 LS-2621 LeConte av	Bkly 8626W	1 LS PreL-542 Twenty-fifth st, O	
Jarkovsky, Isaac	Russia		Oakd 217
1 CE-722 Golden Gate av, S F		Jessup, Mildred	Berkeley
Jarrett, Stephen Montague	Easton	4 LS-2620 Cedar st	Bkly 1466W
2 Min-2416 College av		Jeter, Helen Rankin	Los Angeles
Jarvis, Donald Surface	Sutter Creek	4 LS (H Econ)-2401 Durant av	
4 LS-2519 Ridge rd	Bkly 1416		Bkly 6681
Jarvis, Emma Elizabeth	Sutter Creek	Jewett, Helen Glendora	Eureka
1 LS-2301 Hearst av	Bkly 208J	1 LS-2228 Chapel st	Bkly 9078W
*Jarvis, Zola B.	San Francisco	Jirkowsky, Madeline M.	Oakland
4 LS-3086 College av	Bkly 4250	3 LS-1185 Twenty-sixth av, O	

Johanningsmeier, Elsie May	Willows	Johnson, Robert Lee	Berkeley
1 LS-2413 Virginia st	Bkly 7205J	4 Com-1901 Milvia st	Bkly 604J
Johansen, James Walter	Berkeley	Johnson, Walter Harold	Pomona
72 Agr-2241 Grove st	Bkly 4788W	4 Agr-1730 La Loma av	Bkly 8716
Johansen, Lena Hastings	Berkeley	Johnston, Claire Marie	Richmond
73 LS-2241 Grove st	Bkly 4788W	3 LS-2627 Hearst av	Bkly 3229
Johe, Hildegarde Johanne	San Rafael	Johnston, Effie Truitt	Santa Barbara
4 LS (H Ger)-2149 Stuart st	Bkly 1321W	3 LS-1567 LeRoy av	
*Johns, Milton Vernon	Pacific Grove	Johnston, Frederic Leroy	Pasadena
4 LS-2701 Hearst av	Bkly 2421	1s LS PreA-2117 Center st	Bkly 6521
Johns, Ralph Leslie	Lodi	Johnston, Genevieve Emily May	Los Angeles
4 LS-2223 Atherton st	Bkly 6680	1 LS-2320 Blake st	Bkly 3180W
Johnson, Alfred Roe	Benicia	Johnston, Kathryn	Oakland
14 Mec-2530 Ridge rd	Bkly 775W	24 LS-2515 Hillegass av	Bkly 5728
Johnson, Alice Elizabeth	Fort Bragg	Johnston, Louisa Permelia	Kansas City, Mo.
8 LS (H Hist)-2520 Cedar st	Bkly 2314	3 LS-Mills College, O	Elm 10
Johnson, Amelia Marie	Los Angeles	Johnston, Mason Allen	Yerington, Nev.
2 LS PreL-2400 Haste st	Bkly 4596	1 LS-2634 Bancroft way	Bkly 6744
Johnson, Arthur Alexander	Oakland	Johnston, Sara June	Los Angeles
2 Com-2638 Valdez st, O	Oakd 7090	2 LS-1567 LeRoy av	Bkly 1023W
Johnson, Benjamin LeBaron	Mesa, Ariz.	Johnston, Wallace Daniel	Los Angeles
13 Chem-2717 Hearst av	Bkly 5770	8 LS PreA-2320 Blake st	Bkly 3180W
Johnson, Carroll Henry	Hollister	Johnstone, Harold Wilson	Berkeley
2 Agr-2425 LeConte av	Bkly 4334	12 Agr-2234 Atherton st	Bkly 7368
Johnson, Claes William, Jr.	Pomona	Johnstone, Helen Leale	Chicago, Ill.
3 Agr-University Farm, Davis		2 LS-2417 LeConte av	Bkly 5650
Johnson, Elizabeth	Berkeley	Jolly, Edwin J.	Oakland
2 LS-1905 Virginia st	Bkly 4313J	2 LS-2251 College av	Bkly 9107
Johnson, Ernest Theodore	Turlock	*Jonas, Felix Jacob	
2 Mec-2606 Bancroft way	Bkly 2617	4 LS and 1 Juris-2219 Union st	Bkly 7968
Johnson, Ethelbert	Berkeley	Jones, Albert Baltzley	San Fernando
4 Agr-University Farm, Davis		11 Agr-2304 Fulton st	
Johnson, Evelyn Goldie	Santa Rosa	Jones, Anna Evelyn	Cheyenne, Wyo.
4 LS-2314 Dwight way	Bkly 4026	1 LS-2417 LeConte av	Bkly 5650
Johnson, Gerald Reid	Sacramento	Jones, Charles West	Berkeley
2 LS PreM-2620 Bancroft way	Bkly 888	4 CE-1600 Walnut st	
Johnson, Harold Robert	Bandon, Ore.	Jones, Elsie Keeney	Berkeley
1 LS PreM-2601 Channing way	Bkly 5904	12 LS-2625 Benvenue av	Bkly 7264J
Johnson, Helen Viola	Rice, Wn.	Jones, Evan Merlin	Sacramento
2 LS-2332 Haste st	Bkly 149W	2 LS PreM-Berkeley Inn	Bkly 6370
Johnson, Henrietta Katharina	Boise, Idaho	Jones, Floyd Seymour	Everett, Wash.
2 LS-2725 Channing way	Bkly 7850	1s Com-2226 Chapel st	Bkly 879
Johnson, Juliet Wayman	Santa Rosa	Jones, Frances Carey	Berkeley
3 LS (H Gr Art)-2314 Haste st	Bkly 4026	4 LS (H Hist)-2625 Benvenue av	Bkly 7264J
Johnson, Lester Murta	Berkeley	Jones, Frederick Sidney	Cordelia
2 CE-2 Hillcrest court	Bkly 5536	14 Agr-2501 Ridge rd	Bkly 1335
Johnson, Margaret Leona	Watsonville	Jones, Herbert Lee	Fresno
71 LS-2642 Derby st	Bkly 3285	1 LS PreM-2519 Ridge rd	Bkly 1416
Johnson, Marguerite	Santa Rosa	Jones, James Howard	Dos Palos
3 LS (H Hshld Sci)-2611 Durant av	Bkly 4525W	11 Com-2226 Chapel st	Bkly 879
Johnson, Mary Ethel	Long Beach	Jones, Leona	Visalia
11 LS-2434 Piedmont av		4 LS (H Econ)-2526 Hilgard av	Bkly 1441
Johnson, Mary Nelson	San Antonio, Tex.	Jones, Lyman Ernest	Oakland
1 LS-2508 Haste st	Bkly 2075	11s LS-3465 Lawton av, O	Oakd 4127
Johnson, Olive Coralinn	Berkeley	Jones, Martin Webster	Portland, Ore.
3 LS-2848 Derby st	Bkly 5076W	2 Mec-2500 College av	Bkly 5941
		Jones, Matthew Hall	San Luis Obispo
		5 Mec-1901 Henry st	Bkly 6806W

- Jones, Ottiwell Wood, Jr. San Anselmo  
1 LS PreM-2627 Ridge rd Bkly 2541
- Jones, Ruth Marguerite Vancouver, B. O.  
1 LS-2420 College av Bkly 8391
- Jones, Shirley Lynette Santa Paula  
1 LS-4154 Manila av, O Pied 2091W
- Jongeneel, Adriana Ignacio  
1 LS-2435 Hilgard av Bkly 6406
- Jongeneel, Louis William Pittsburg  
4 Agr-2689 Ashby av Bkly 2168
- Jordan, Albion P. Alameda  
2 LS-2330 Telegraph av Bkly 4429
- Jordan, J. Taylor Berkeley  
11s Com-1822 Milvia st Bkly 885
- Jordan, Roscoe Esmond Oroai  
2 LS-2717 Hearst av Bkly 5770
- Jorgensen, Harold Ernest San Francisco  
2 CE-1026a Shotwell st, S F Msn 2521
- Joseph, Edwin San Francisco  
13 LS PreL-274 Twentieth av, S F Pac 5796
- Joy, Kenneth Dayton Portland, Ore.  
12 CE-2515 Dwight way Bkly 6565
- Joy, Laura Irene Walla Walla, Wash.  
3 LS-2337 Ward st Bkly 8676
- Juch, Flournoy Albert San Diego  
4 LS and 1 Juris-2605 Durant av Bkly 552
- Juda, Fanny San Francisco  
3 LS (H Hist)-1809 Euclid av Bkly 1615
- Judkins, Thomas Calvert Berkeley  
14 LS PreL-2441 Webster st Bkly 820
- Jue, Josephine Marion San Rafael  
1 LS-2114 Channing way
- Jui, Dong Kiang Shanghai, China  
1 LS-2326 Durant av
- Julian, Consuelo San Diego  
1 LS-2714 Durant av Bkly 6694W
- Justice, Pauline Berkeley  
2 LS-2917 Garber st Bkly 1228J
- Kaar, Server L. Bakersfield  
2 Com-2531 Chilton way
- Kahn, Laura Louise San Francisco  
12 LS-2743 Bush st, S F Flmr 629
- Kaiser, Genevieve Gladys San Francisco  
2 LS-125 Highland av, S F Msn 4444
- Kaiser, Ralph Henry San Francisco  
2 LS PreA-125 Highland av, S F Msn 4444
- Kalber, Mabel Rio Vista  
3 LS-576 Twenty-seventh st, O Lksd 1102
- Kamp, David Starr San Francisco  
1 LS PreL-930 Ashbury st, S F Mrkt 6856
- Kamp, Harold San Francisco  
1 LS-930 Ashbury st, S F Mrkt 6856
- Kane, F. Margaret Berkeley  
3 LS-1911 Home st Bkly 477
- Kane, Joseph Maurice Berkeley  
5 CE-1370 California st, S F Frkn 2409
- Kann, Gregory Harbin, Manchuria  
3 Com-2221 Atherton st
- Kaplan, Ray Carol Berkeley  
14 LS-2435 College av Bkly 8629J
- Kapp, Spencer Shepard San Jose  
1 Com-2018 Virginia st Bkly 3112J
- Karstensen, Alvin Mathias San Francisco  
4 LS PreA-823 Oak st, S F Mrkt 6271
- Katsuyama, Katsujiro Upland  
8 Chem-2308 Virginia st Bkly 6441
- Katzenstein, Hazel Ardella Sacramento  
4 LS (H Ger)-2711 Virginia st Bkly 4606J
- Kaufman, Earle Francis Berkeley  
14 LS PreA-1608 Arch st Bkly 6444
- Kaufman, Jack Los Angeles  
4 Chem (H)-2519 Durant av Bkly 8543
- Kaufman, Melville San Francisco  
4 LS-Hotel Shattuck Bkly 7300
- Kawasaki, Benjamin Shinobu Fresno  
1 LS PreA-2308 Virginia st Bkly 6441
- Kazanjan, Karl P. Fowler  
2 LS PreA-2617 Haste st Bkly 5077W
- Kean, Letitia Reid Berkeley  
4s LS-1535 Henry st
- Kearney, Helen Anna Berkeley  
1 LS-2247 Eunice st Bkly 6881
- Kearns, Helen Anita San Francisco  
1 LS-1040 Green st, S F Frkn 920
- Kents, Evadne Louise Los Angeles  
13 LS-2630 Bancroft way Bkly 8469W
- Kee, Sam Kai Dinuba  
1 CE-2815 Forest av
- Keefe, John Morris San Francisco  
15 LS-72 Central av, S F Park 58
- Keefer, Earl Donald Fresno  
12s LS PreL-Hotel Shattuck Bkly 7300
- Keeler, Cora Floyd Berkeley  
4 LS-Euclid apts Bkly 7521J
- Keeler, Merodine Berkeley  
2 LS-2727 Dwight way Bkly 3270
- Keeler, William Norton Portland, Ore.  
2 LS PreL-2345 College av Bkly 62
- Keen, Alice Boyd San Diego  
1 LS-2421 LeConte av Bkly 3062
- Keen, Louise Egerton San Diego  
4 LS-2421 LeConte av Bkly 3062
- Keeney, M'Louise Los Angeles  
4 LS-2714 Ridge rd Bkly 9093
- Kehoe, John Walter San Francisco  
1s LS-3440 Twenty-fourth st, S F
- Keiser, Ada Los Angeles  
3 LS-2401 Channing way Bkly 3334
- Keith, Elizabeth Erminie Riverside  
4 LS-2511 Dwight way Bkly 7079
- Keith, Gordon Lyons San Andreas  
1 Mec-2427 Durant av Bkly 4521J

Keith, James Newton	Riverside	Kephart, Russel Elwood	San Francisco
1 Mec-2511 Dwight way		12 Min- 2222 Bancroft way	Bkly 6475
Keith, Madeline Farrington	Calistoga	Kerchen, John Lawrence	Portland, Ore.
2 LS-2727 Dwight way	Bkly 8270	4 LS-2224A Chapel st	
Keith, Rose Sedgwick	Calistoga	Kernan, Marian Anita	Oakland
1 LS-2727 Dwight way	Bkly 3270	1 LS-469 Van Buren st, O	Oakd 2498
Kellogg, Elfreda Emilie	San Francisco	Kern, Arthur Edward	Richmond
1 LS-2747 Stuart st	Bkly 6919W	2 Com-10 Tunnel av, R	Rchd 413W
Kellogg, Helen Katherine	Ingomar	Kern, Louise Allene	Rockford, Ill.
3 LS (H Engl)-2710 Channing way	Bkly 9520	3 LS-1329 Walnut st	Bkly 4208
Kellogg, Mildred Dorothy	Ingomar	Kern, Russell Allen	Berkeley
3 LS-2710 Channing way	Bkly 9520	21 Agr-1329 Walnut st	Bkly 4203
Kellogg, Ruth Garnette	San Jose	Kerr, Kathleen Margaret	San Mateo
3 LS-2122 Hearst av		11 LS-2642 Derby st	
Kellv, Paul Brendon	Bakersfield	Kerr, Richard Caldwell	Coalinga
2 LS PreL-2226 Chapel st	Bkly 879	2 Min-2617 Durant av	Bkly 373
Kelly, Phoebe Clare	Berkeley	Kerner, Myrtis Pauline	Denair
2 LS PreA-2431 College av		1s LS-1400 LeRoy av	Bkly 4833W
Kelsev, Alda Belle	Berkeley	Kessler, Marie Irene	Oakland
4 LS-2213 Vine st	Bkly 4207J	4 LS (H Hist)-1951 Harrington av, O	Frvl 1266W
Kelsev, Anne Harriet	Berkeley	Kessler, Richard Holmes, Jr.	Oakland
3 LS-1506 Spruce st	Bkly 2329	2 LS-2717 Hearst av	Bkly 5770
Kelton, Genevieve Eugenia	Berkeley	Ketchum, Alice Maude	Galveston, Tex.
3s LS-2020 Delaware st	Bkl 3944	1 LS-2417 LeConte av	Bkly 5650
Kemp, Arthur Henry	Berkeley	Kiang, Shao Yuen	Shanghai, China
4 Agr-University Farm, Davis		1 LS-2107 Durant av	
Kemp, Thatcher John	Los Angeles	Kidder, Arthur Worcester	Berkeley
1 LS PreL-2400 Bancroft way	Bkly 78	3 CE-1307 Bay View pl	Bkly 3031W
Kemper, Warren Runyon	San Luis Obispo	Kidwell, Harold Wadsworth	Berkeley
4 Mec-2400 Bancroft way	Bkly 78	3 Mec-2011 Channing way	Bkly 644
Kendall, Herbert Raymond	Santa Ana	Kieffer, Donald Linn	Berkeley
3 Com-1726 Euclid av	Bkly 6706	3 Agr-University Farm, Davis	
Kende, Jane	San Francisco	Kieldsen, Helen	Boise, Idaho
21s LS-2240 Telegraph av	Bkly 1249	1 LS-2702 Virginia st	Bkly 6789
Kengla, Eileen Rose	San Francisco	Kieldsen, Lucy	Boise, Idaho
3 LS-2749 Dwight way	Bkly 204	4 LS (H Latin)-2702 Virginia st	Bkly 6789
Kennedy, Anna Pauline	Berkeley	Kiessig, William Frederick	Berkeley
1 LS-1192 Arch st	Bkly 1050	3 LS PreL-2037 Virginia st	
*Kennedy, Edith Ellia	Helena, Mont.	Kilburn, Harvey Maher	Los Angeles
4 LS-2518 Dana st	Bkly 2750J	3 Agr-1726 Euclid av	Bkly 6706
Kennedy, Edward Bell	Pomona	Kilgore, Blossom Marguerite	Lodi
2 LS-2426 Virginia st	Bkly 3471	1 LS-2925 Delaware st, O	Frvl 2250W
Kennedy, Jennie Dunn	San Francisco	Killian, Clav	El Monte
3 LS-63 Alpine ter, S F	Park 3077	1 LS-2400 Bancroft way	Bkly 78
Kennedy, Karl Eliot	Sebastopol	Killian, Howard Scott	El Monte
3 LS PreM-2500 College av	Bkly 2840	3 LS-2248 Telegraph av	Bkly 9011
Kent, Edmund Randolph	Berkeley	Kilpatrick, Genevieve	Bishop
15 LS-2428 Ellsworth st	Bkly 8873	3 LS-2231 Carlton st	Bkly 8438W
Kent, Fred Dewey	Bakersfield	Kilty, Harold Joseph	San Diego
1 CF-2418 College av	Bkly 4440	1 Com-2424 S. Atherton st	
Kent, John Dearborn	Poway	Kimball, Elias Smith	San Diego
1 LS-1739 Euclid av		3 Agr-2511 Channing way	Bkly 3121J
Kent, William Avery	Poway	Kimball, John Walker	Chino
4 Agr-2415 Durant av	Bkly 1712	2 Agr-1700 Parker st	
Kenville, Cyril Philip	Oakland	Kimball, Reta M.	Chino
4 Mec-830 Seventh av, O		2 LS-1700 Parker st	
Kenworthy, Mildred Teresa	Whittier	Kimball, Ruth Helen	Calistoga
2 LS-2328 Bowditch st	Bkly 6201J	3 LS-1700 Euclid av	Bkly 1625
Kenyon, Mary Chase	San Diego		
3 LS-2827 Hearst av	Bkly 3229		

- Kimble, Grace Eleanor Los Angeles  
4 LS (H Econ)-1739 Euclid av Bkly 493
- Kimbrough, Bradley Duke Amarillo, Tex.  
2 LS PreL-2247 Bancroft way
- Kimbrough, Harris McDonald Amarillo, Tex.  
1 LS PreL-2247 Bancroft way
- Kincher, E. Othello Redlands  
28 Chem-2206 Atherton st
- Kinell, Ruth Berkeley  
1 LS-2211 Stuart st Bkly 5832
- King, Adrienne Salt Lake City, Utah  
2 LS-Cambridge apts Bkly 8543J
- King, Carl Seattle, Wash.  
3 Mee-2516 Ridge rd Bkly 5845
- King, Clinton Samuel Hayward  
3 Mee-2432 College av Bkly 2627W
- King, Esther Laurilla Hayward  
4 LS-2432 College av Bkly 2627W
- King, Helen Anna Pasadena  
3 LS-2627 Hearst av
- King, Kenneth V. Ashland, Ore.  
2 Min-2228 Chapel st Bkly 2708
- King, Reginald Hart Pueblo, Colo.  
1 Chem-2617 Haste st Bkly 5077W
- King, Stanley Conrad Walla Walla, Wn.  
4 CE-2059 University av Bkly 2524
- Kingman, Alice Marie Chelan, Wn.  
4 LS-2711 Virginia st Bkly 4606J
- Kingsbury, Milton Ladd Stockton  
2 LS PreL-2316 Bowditch st Bkly 6504
- Kingslev, Sherwood Lewis Hollywood  
1 Com-2601 Durant av Bkly 23
- Kingston, John J. San Francisco  
1 Med-320 Pierce st, S F Mrkt 5193
- Kington, Sam Saul San Francisco  
21 CE-1008 West st, O
- Kinnear, James Stewart Newman  
2 Agr-2421 Virginia st Bkly 4289
- Kinaler, Victoria Beatrice Yuma, Ariz.  
1 LS-2114 Marin av Bkly 4918J
- Kirk, Harris Crozer Berkeley  
2 Agr-1538 Arch st Bkly 2232J
- Kirk, Marguerite Bozeman, Mont.  
4 LS-2417 Bancroft way Bkly 3720W
- Kirkland, Dorothy Campbell Los Angeles  
3 LS-2417 LeConte av Bkly 5650
- Kirkpatrick, Katharine Los Angeles  
4 LS-2723 Durant av Bkly 9531
- Kirkpatrick, Wynona Elizabeth Dawson, Y. T., Canada  
21 LS-2020 1/2 Delaware st
- Kirkwood, Elizabeth San Francisco  
1 LS-2627 Hearst av Bkly 4009
- Kirmond, Harry Reedley  
1 Min-2305 Fulton st Bkly 5040
- Kissling, Rudolph Conrad Arbuckle  
3 LS-2214 Bancroft way Bkly 1481W
- Kitagawa, Masae San Francisco  
2 Com-1801 Chestnut st
- \*Kitsuda, Frank Yoshimiche So Pasadena  
4 LS and 1 Med-2308 Virginia st Bkly 6441
- Kittredge, Esther Berkeley  
4 LS (H Chem)-2606 Bancroft way Bkly 2617
- Kittredge, Perry Berkeley  
2 LS PreM-2606 Bancroft way Bkly 2617
- Kivett, Leonard Oakland  
1 LS PreM-4150 Kanning st, O Frvl 1287W
- \*Kivasu, Kunisada Los Angeles  
4 LS and 1 Med-2308 Virginia st Bkly 6441
- Klasgys, Maud Nichols Brawley  
2 LS-2505 College av Bkly 808
- Kleinecke, Mary Louise Sonora  
4 LS (H Engl)-1032 Curtis st Bkly 8319
- \*Klemgard, James Gordon Long Beach  
4 Com-2618 Durant av Bkly 1055W
- Klingaman, George LeRoy Los Angeles  
1 Min-1726 Euclid av Bkly 6706
- Knuegel, Elsa Margaret San Francisco  
21 LS-158 Church st, S F Park 3759
- Knapp, Charlotte Hastings Los Angeles  
3 LS PreA-2511 Dwight way Bkly 7079
- Knauer, Lawrence Frederick Sacramento  
4 Com-2601 Channing way Bkly 5904
- Knaus, Russell Vernon San Francisco  
1 Chem-154 Tenth st, S F Park 7378
- Knight, Glen Orral Chico  
4 LS PreA-1711 Euclid av Bkly 9306
- Knight, Helen Elizabeth Hood River, Ore.  
1 LS-2714 Durant av Bkly 6694W
- Knopf, Harry Oakland  
1 LS PreM-238 Oakland av, O Lksd 2174
- \*Knowles, Maurice Herbert Oakland  
5 Min-2236 Grove st, O Oakd 2918
- Knowles, Muriel Eleanor Fortuna  
2 LS-2033 Delaware st Bkly 6619
- Knowlton, Naomi Coquille, Ore.  
2 LS-2334 Bowditch st Bkly 1358W
- Knox, Charles Richardson Los Angeles  
4 LS-2251 College av Bkly 9107
- Knox, Donald Gordon Ontario  
2 Agr-2534 Bancroft way Bkly 2596J
- Knudson, Earl John Brigham City, Utah  
4 Com-2276 Shattuck av Bkly 8300
- Knudson, Herluf Albert Oakland  
4 Mee-2112 High st, O Frvl 695J
- Knudson, Rae Evelyn Brigham City, Utah  
1 LS-2276 Shattuck av Bkly 8300
- Knudson, Thaddeus Los Angeles  
1 LS-2332 College av Bkly 1134
- Knudson, Thurston Pendroy Los Angeles  
3 LS-2332 College av Bkly 1134
- Koch, Karl William Sacramento  
2 Agr-2001 Allston way Bkly 6710

- \*Koehler, Louise Brewster St. Helena  
4 LS-1736 Oxford st Bkly 7247  
Koehler, Ralph Holt St. Helena  
13 Agr-2222 Chapel st Bkly 4371  
Koenig, Louise Helene San Francisco  
3 LS-2237 Atherton st Bkly 4968  
Koford, Edward Thomas Santa Rosa  
1 LS PreL-2115B Durant av Bkly 1624  
Kohle, Lester Frederick Frank Redding  
4 Min-2646 Dwight way Bkly 4104  
Kohler, Carlos Chester Los Angeles  
3 LS-2620 Bancroft way Bkly 888  
Kohlmeier, Charles Frederick Berkeley  
1 Chem-628 Adams st  
Kohlmoos, Hermann San Francisco  
2 CE-2213 Atherton st Bkly 9868  
Kohlmoos, Sophie Elizabeth San Francisco  
1 LS-2211 Atherton st Bkly 2744W  
Konno, Toyoji Frank Pacific Grove  
3 LS-2308 Virginia st Bkly 6441  
Koopman, George Martin Dublin  
24 Agr-University Farm, Davis  
Korn, George Frederick Angel Island  
1 Agr-1730 La Loma av Bkly 8716  
Kornblum, Isidore Benjamin Los Angeles  
4 LS and 1 Juris-2318 Telegraph av Bkly 5964  
Kowanda, Madeline Camellis Vacaville  
1 LS PreM-1519 Henry st  
Kower, Eugene Oakland  
3 Mec-2218 Dana st Bkly 3267  
Kracaw, Theodore Covell Orland  
2 LS-2510 Buena Vista way Bkly 2890W  
Krag, Wilma Parlier  
1 LS-1733 Bancroft way  
Kramer, Jennie Wahpeton, N. D.  
3 LS PreA-2628 Haste st  
Krause, Lydia Fairfax New York, N. Y.  
1 LS-2417 LeConte av Bkly 5650  
Krause, Tina Natasha Los Angeles  
1 LS-2621 LeConte av Bkly 8626W  
Kravchik, Elizabeth Cecelia Los Angeles  
2 LS-130 Gates st, S F Valen 1374  
Kravchik, Josephine Lucy Los Angeles  
2 LS-130 Gates st, S F Valen 1374  
Kremer, Gladys May San Francisco  
4 LS (H Philos)-2500 Durant av Bkly 8064W  
\*Kretsinger, G. William Berkeley  
4 Agr-2220 Dwight way Bkly 4006  
Krieger, George Stewart Stockett, Mont.  
1 Com-2436 Durant av Bkly 6780J  
Kroeger, Adolph Claus Oakland  
4 Min-455 Vernon st, O Oakd 2781  
Kroll, Ruth Evelyn Oakland  
4 LS-126 Kempton av, O Oakd 9518  
Kronenberg, James Frederick Sausalito  
3 LS PreL-Sausalito  
Kronnick, Arthur Clifford Los Angeles  
13 CE-2630 Ridge rd Bkly 1361  
Krotozyner, Albert W. San Francisco  
2 LS-995 Sutter st, S F Frkn 270  
Krotozyner, Hilda San Francisco  
1 LS-995 Sutter st, S F Frkn 270  
Krueger, Golda Bloomington, Ill.  
1 LS-Hotel Shattuck Bkly 7300  
Krusi, LeRoy Farnham Alameda  
4 CE-2607 Hearst av Bkly 5913  
Kuck, Lorraine Elizabeth Los Angeles  
23 Agr-2511 Dwight way Bkly 7079  
Kull, Helen Mary Los Angeles  
1s LS-2712 Derby st Bkly 5558W  
Kurashshi, Toyokichi Riverside  
4 LS PreA-2308 Virginia st Bkly 6441  
Kurtenbach, Theresa Catherine Berkeley  
3 LS-2531 Ridge rd Bkly 6485  
Kusch, Eda Mae Chico  
1 LS-2224 Chapel st  
Kutzmann, Adolph A. Los Angeles  
3 LS PreM-1920 Milvia st  
Kyle, William Bailie San Francisco  
8 CF-2001 Allston way Bkly 6710  
Kyle, William Forest Porterville  
21 LS-2226 Chapel st  
Kyono, Junhashiro San Francisco  
1 Agr-2308 Virginia st Bkly 6441  
La Barea, Margaret Berkeley  
8 LS-2201 Glen av Bkly 596  
Lachman, Gertrude Dorothy San Francisco  
21 LS-1926 Lake st, S F Pac 3276  
Lackey, Myron Elmo Roseville  
1 LS PreL-1738 Stuart st  
Lackland, Louise Esther Salt Lake City, Utah  
12 LS PreA-2218 Durant av Bkly 1834  
Lacoste, George John Oakland  
3 LS PreL-2200 Piedmont av Bkly 6760  
La Grange, Helen Birchard Boston, Mass.  
1s LS-2329 Channing way Bkly 4304J  
La Grave, Marjorie Clothilde Sacramento  
3 LS (H Hist)-2401 Durant av Bkly 6681  
Lahann, Katherine Martha Visalia  
1 LS-2732 Channing way Bkly 9317  
Lamb, Eugene Hollywood  
13 Agr-1564 LeRoy av Bkly 5063  
Lamb, Frank Sacramento  
3 Mec-2345 College av Bkly 62  
Lamb, Mabel Grace Emporia, Kans.  
3 LS-2531 Ridge rd Bkly 6485  
Lambert, Charles Albert Suissun  
3 LS PreL-2312 Durant av Bkly 1842  
Lamborn, Clyde Francis Alameda  
2 LS PreL-1428 Morton st, A Ala 1694  
Lamme, Georgia Long Beach  
1 LS-2613 Channing way Bkly 7469W  
La Montague, Emma Cecelia Visalia  
21 LS-2700 College av Bkly 1442J  
Lamson, Helen Dell Corona  
3 LS-2700 College av Bkly 1442J

Landsberger, Ramon Hill	Berkeley	Laton, Anita Duncan	Sebastopol
1 Com-2710 Elmwood av	Bkly 6351	4 LS-2786 Haste at	Bkly 8680
Lane, Charles David	San Francisco	Latourette, Jessie May	Sacramento
4 Agr-2607 Hearst av	Bkly 5913	1 LS-2627 Hearst av	Bkly 8229
Lane, Travis Pollard	San Francisco	Latson, Harley	Whittier
15 Min-2607 Hearst av	Bkly 5913	4 CR-2215 Telegraph av	Bkly 372
Lane, Verna Maude	Reedley	Latta, Harriet Elma	Sacramento
3 LS-2821 Bancroft way	Bkly 1765	3 LS-2520 Cedar st	Bkly 2314
Lane, Virginia	Berkeley	Laugenour, Eugene Thomas	Woodland
11 LS-2943 Avalon av	Bkly 2311	4 Agr-University Farm, Davis	
Lange, Lilly	Remsen, Iowa	Laughlin, James Dallas	San Francisco
2a LS-2210 Atherton st		14 Mec-903 Pine st, S F	Frkn 6359
Lange, Ruth Raymond	Berkeley	Lausen, Carl	Galveston, Texas
3 LS (H Engr)-2601 LeConte av	Bkly 424	4 LS-2211 Ellsworth st	Bkly 5496W
Lange, Stephanie	Paris, France	Lautenschlager, Vera Elizabeth	Richmond
2a LS-2424 Virginia st		1 LS-2526 Hilgard av	Bkly 1441
Langerman, Helen Lora	Portland, Ore.	Lauxen, Richard, Jr.	Stockton
11 LS-139 Twelfth av, S F	Pac 1578	3 LS-2251 College av	Bkly 9107
Langford, Harry	Santa Barbara	Lavedock, Jessie Mae	Visalia
3 Agr-2219 Atherton st	Bkly 2252W	3 LS-1643 Euclid av	Bkly 2094J
Langguth, Dorothea Charlotte	Berkeley	Lavenson, Alma Ruth	Oakland
2 LS-3009 Colby st	Bkly 4771W	2 LS-657 Walsworth av, O	Pied 1925
Langhorne, Herbert Devall	Alameda	Lavine, Morris	Los Angeles
3 Agr-2425 LeConte av	Bkly 4334	4 LS and 1 Juris-2218 Union st	Bkly 2967
Langley, Esther Margaret	Watsonville	Lawrence, Edith Jane	Corning
2 LS-2714 Ridge rd	Bkly 9093	12 LS-2401 Durant av	Bkly 6681
Langle, M. Ethel	Watsonville	Lawson, Theodore Carey	Los Angeles
2 LS-2714 Ridge rd	Bkly 9093	3 LS-2701 Hearst av	Bkly 2431
Langstroth, Malin Thomas	Oakland	Lawton, Donald Carroll	Berkeley
3 LS-2251 College av	Bkly 9107	3 Com-2211 Durant av	Bkly 141
Lannan, Mary	Los Angeles	Lawton, Ethel Jane	Ross
11 LS-2417 LeConte av	Bkly 5650	1 LS-2500 Durant av	Bkly 9082J
Lantz, Perry Eugene	Alameda	Lawton, John Watkin	Hollywood
4 Agr-2605 Durant av	Bkly 552	4 Agr-University Farm, Davis	
LaPrade, Arthur Thornton	Winslow, Ariz.	Lawton, Margaret Emily	Hollywood
4 LS and 1 Juris-2200 Piedmont av	Bkly 6760	2 LS-2535 Chilton way	Bkly 6911J
Larkev, Sanford Vincent	Oakland	Lawyer, Morris Chester	Los Angeles
11 LS PreM-1017 Ashmount av, O	Oakd 290	11 Com-2529 Hearst av	Bkl 40
Larrabee, Ray Joseph	Richmond	Lazar, Lucille	Los Angeles
2 Min-840 Sixth st, R		12 LS-2627 Hearst av	Bkly 3229
Larsen, Murtle Aileen	Rio Vista	Lazarus, Florence Friedlander	San Francisco
3 LS (H Span)-2401 Durant av	Bkly 6681	11a LS-1794 Hayes st, S F	Flmr 1740
Larsen, Ewald Axel	Kingsburg	Lazear, William Houston	Santa Barbara
4 LS and 1 Med-2407 S Atherton st	Bkly 3330	1 LS-2907 Dwight way	
Lasher, Robert Emmett	Los Angeles	Leach, Margaret Elizabeth	Piedmont
1 Agr-2445 Channing way	Bkly 7068J	1 LS-125 Hillside av, P	Pied 380
Lassen, Anita Mary	Oakland	Learner, Jack Elton	Oakland
2 LS-1502 Peralta st, O		4 Com-363 Santa Clara av, O	Oakd 3575
Latham, George Campbell	Stockton	Leary, Dorothy Marie	Berkeley
1 Com-2245 College av	Bkly 62	1 LS-1053 Mariposa av	Bkly 3872W
Lathrap, Cecil Arthur	Oakland	Leask, Haswell Thomson	Santa Cruz
2 Chem-2174 Thirty-ninth av, O	Frwl 1881W	2 Agr-2717 Hearst av	Bkly 5770
Latimer, Lorenzo Phelps	San Francisco	Leavitt, Donald Leigh	Oakland
2 Agr-2919 Hillegass av	Bkly 5819J	2 Agr-902 Linden st, O	Oakd 1846
		Leavy, Francis Olsin	San Francisco
		3 LS-2521 Durant av	Bkly 3437
		Leber, George Albert	Oakland
		13 LS-930 Tenth st, O	Oakd 4712

- Le Breton, Edward Howard  
Alamogordo, N. M.  
2 Com-2428 College av Bkly 4748  
Ledeme, Adele Pauline San Francisco  
2 LS-519 Seventeenth av, S F
- Ledig, Paul Gerhard Pac 6440  
Alta Loma  
4 Chem-2001 Allston way Bkly 6710  
Lee, DeWitt Littlejohn Hayward  
2 CE-2314 Cedar st Bkly 2715J  
Lee, Dorothy Louise Glendale  
21 LS-2624 Virginia st Bkly 3663  
Lee, Edith Adelaide San Francisco  
3 LS-1327 Oxford st Bkly 5678  
Lee, Frank Warne Los Angeles  
1 LS PreM-1806 Cedar st  
Lee, Frank Yow San Francisco  
1s Com-1809 Euclid av Bkly 1615  
Lee, Joses Bawkmun Oakland  
1 Mec-520 Alice st, O Lkd 3703  
Lee, Mary Rocelia Modesto  
3 LS-2421 LeConte av Bkly 3062  
Lee, May Thompson Oakland  
2 LS-5424 Lockalev av, O Pied 5823J  
Lee, Russel Van Arsdale San Francisco  
4 LS and 1 Med-2446 Washington st, S F  
Flmr 3822
- Lee, Sarah Docfon Oakland  
21 LS PreM-520 Alice st, O Lkd 3703  
Lee, Shun Leung San Jose  
15 Mec-2332 Fulton st Bkly 2972J  
Lee, Teh Young Changsha, China  
2 Mec-2213 Bancroft way Bkly 1238  
Leeper, Dorothy Alice Lewiston, Idaho  
1 LS-2542 Durant av Bkly 3873  
Leete, Helen Bailey Piedmont  
3 LS-36 Greenbank av, P Pied 4434J  
Leggett, Charles Kenneth Oroville  
3 LS-2927 Regent st Bkly 4888W  
Le Hane, Kathryn Modesto  
1 LS-2546 Chilton way Bkly 691J  
Le Hane, Ruth Modesto  
1 LS-2546 Chilton way Bkly 691J  
Leigh, Armistead C., Jr. Los Angeles  
4 LS (H Anat) and 1 Med-2001 Allston  
way Bkly 6710  
Leiser, Jesse Bryan Spokane, Wash.  
1 LS-2310 College av Bkly 4126J  
Leishman, Robert Ross Caspar  
11 Mec-2214 Union st
- Leithold, Helen Woodland  
2 LS-2710 Channing way Bkly 9520  
Leithold, Moreland Woodland  
2 LS-2601 Channing way Bkly 5904  
Leland, Wallace Hilton Berkeley  
11 Mec-912 Indian Rock av Bkly 2024  
Lemcke, Hans Alameda  
4 Agr-2610 Durant av Bkly 7804  
LeMoin, Reuben Everett Brentwood  
2 Mec-625 Fifty-second st, O Pied 6795
- Lemon, Gladys Irene Watsonville  
3 LS (H Physiol)-1429 Hawthorne ter  
Bkly 6420J  
Lemon, Mildred Olympia, Wash.  
3 LS-2722 Bancroft way Bkly 1278  
Lenahan, Madelyn Gertrude Suisun  
1 LS-2226 Atherton st Bkly 5479J  
Lennon, Thomas Joseph San Francisco  
11 LS PreM-946 Eddy st, S F Frkn 16  
Leonard, Edwin Stanley, Jr. Oakland  
2 LS-474 Twenty-seventh st, O  
Oakd 3971  
Leonard, Eileen M. San Francisco  
4 LS-2521 Dwight way Bkly 6646W  
Leonard, Marie Louise San Francisco  
3 LS-2521 Dwight way Bkly 6646W  
Leonhardt, Ellen Marv Pasadena  
2 LS-2611 Etna st Bkly 4584  
Lepley, Bessie Arvella Petaluma  
11 LS-1632 Sonoma av Bkly 7576J  
Leplin, James Berkor San Francisco  
11 Mec-3752 Piedmont av, O Pied 6249  
Lerch, Archer Lynn Oakland  
4 LS and 1 Juris-1211 Thirty-eighth av,  
O  
Lesley, Ruth Corrinne Goldfield, Nev.  
4 LS-2216 Blake st Bkly 8080  
Leslie, Ernest Samuel San Francisco  
2 LS PreL-3973 Army st, S F  
Lesseur, Paul Harry Mesa, Ariz.  
11 LS-917 Ventura av  
Less, Louis San Francisco  
4 LS-Hotel Shattuck Bkly 7300  
Lessard, Mark Davis Alameda  
1 LS PreM-1120 Grand st, A  
Lester, Helen Valeria Berkeley  
11 LS-1763 San Pedro av Bkly 3978W  
Lester, Hester Geraldine Berkeley  
3 LS (H Pol Sci)-1763 San Pedro av  
Bkly 3978W  
Le Tourneau, Leon Jay Escalon  
11 Agr-2400 Dana st  
Leung, Ching Kum San Francisco  
11s LS-2748 Ashby av  
Leuschner, Erida Louise Berkeley  
2 LS-1816 Scenic av Bkly 2182  
Levé, Frederick Philip Oakland  
4 Com and 1 Juris-1220 Fruitvale av, O  
Frvi 1998J  
Levendusky, Mary L. Lytton  
1 LS PreL-2583 Durant av Bkly 665  
Levin, Emanuel New York, N. Y.  
11s LS-1562 Ellis st, S F West 7425  
Levin, Leah San Jose  
2 LS-2315 Howe st  
Levison, John Gerstle San Francisco  
2 Agr-Cor. Ridge rd and Le Roy av  
Bkly 9183  
Levy, Alice Alameda  
3 LS-1738 Alameda av, A Ala 1115



- Levy, Hazel Los Angeles  
2 LS-2825 Channing way Bkly 605
- Levy, Melville Morris Stockton  
3 LS-2318 Telegraph av Bkly 5964
- Leweaux, Cecil Ulrika Portland, Ore.  
3 LS-1809 Euclid av Bkly 1615
- Lewin, Jack Leon San Francisco  
21 LS-2318 Telegraph av Bkly 5964
- Lewis, Charles Hyde San Francisco  
28 Min-1815 Highland pl Bkly 1682
- Lewis, Ellen Marguerite Berkeley  
21 LS-2701 Woolsey st Bkly 3258
- Lewis, Franklin Blades Pomona  
2 Agr-2627 Ridge rd Bkly 2541
- Lewis, Genevieve Mildred La Jolla  
1 LS-210 Treehaven apts Bkly 8482J
- Lewis, Grace Joy Fresno  
3 LS (H Engl)-1515 Walnut st Bkly 1249
- Lewis, Gwynne Llewellyn Los Angeles  
21s LS-2606 Dwight way Bkly 139
- Lewis, Lawrence Quick San Diego  
2 Agr-1707 Euclid av Bkly 7844J
- Lewis, Leandro Neville Chico  
1 Com-655 Ashbury st, S F Berkeley
- Lewis, Lelah Mary Berkeley  
1 LS-1738 Milvia st Bkly 9038W
- Lewis, Lorraine Chicago, Ill.  
11 LS-5867 Ocean View dr, O Richmond
- Lewis, Ralph Lucian Richmond  
2 Mec-646 Twelfth st, R
- Lewis, Walter Stuart Santa Barbara  
1 Com-2601 Channing way Bkly 5904
- Lichtenstein, Beatrice Pauline San Leandro  
1 LS-Palace Hotel, S F Sutr 700
- Lichtenstein, Norma Clair San Francisco  
21 LS-Palace Hotel, S F Sutr 700
- Lichthardt, Eschscholtzia Sacramento  
4 LS (H Bacteriol)-2736 Haste st Bkly 8680
- Liddle, Marjorie Elizabeth San Francisco  
3 LS-2218 Dana st Bkly 3267
- Lieser, Jessie Hollingsworth Vancouver, Wn.  
4 LS-2311 Bancroft way Bkly 7877
- Lieas, Hilda Gloria San Francisco  
12 LS-32 Beaver st, S F Mkt 4088
- Lifshitz, Usher Hillilevich Melitopol, Russia  
11 Mec-2235 1/2 Chapel st
- Lilley, Dorothy Eaden Santa Cruz  
2 LS-2420 S Atherton st Bkly 2919W
- Lilley, Ivan Walter Merced  
3 Agr-2501 Ridge rd Bkly 1335
- Lillie, Edythe Bishop  
4 LS-2519 Hillgass av Bkly 477
- Lillie, Merle Berkeley  
12 LS-2966 Russell st Bkly 2907
- Lillie, Winifred Maude Berkeley  
3 LS-2469 Rawson st, O Frvl 2076W
- Limbaugh, Helen Virginia Lodi  
1 LS-1815 Walnut st Bkly 3092
- Lincoln, Chester Charles  
4 LS-2110 Hearst av Bkly 1903
- Lincoln, Elton Page  
2 Com-2110 Hearst av Bkly 1903
- Lincoln, Nina Elaine  
2 LS-2110 Hearst av Bkly 1903
- Lindberg, Ruby Anna Alameda  
1 LS-3005 Santa Clara av, A Ala 1535
- Lindh, Hazel Fredericks Charlotte Oakland  
4 LS (H Hist)-2363 E. Twenty-third st, Frvl 1869W
- Lindley, Paul Alexander Los Angeles  
12 LS-2001 Allston way Bkly 6710
- Lindsay, Alice Rowena San Francisco  
1 LS-1821 Hearst av Bkly 6285W
- Lindsay, Allan Peter Milford  
3 LS (H Hist)-2240 Telegraph av Bkly 1249
- Lindsay, George Moore Berkeley  
4 LS-2610 Durant av Bkly 7804
- Lindsay, Margaretta Quarelle San Francisco  
1 LS-1821 Hearst av Bkly 6285W
- Lindsey, Avery Wanda Lindsey  
1 LS-2233 Ellsworth st Bkly 295W
- Lindstrand, Uno Soledad  
2 Agr-1734 Walnut st
- Line, Judith Tyrrell Oakland  
1 LS-2225 Dwight way
- Lingle, Ralph Waldo Fresno  
4 Mec-2521 Dana st Bkly 3037
- Linn, Albert Howard Watsonville  
3 LS PreM-2332 College av Bkly 1184
- Lipman, Mary Edith Berkeley  
3 LS-2467 Warring st Bkly 1336
- Lippitt, Dorothy Petaluma  
3 LS-2624 Virginia st Bkly 3663
- Lisher, George Louis Napa  
1 Mec-1802 Bancroft way
- Liss, Stella Marguerite Sacramento  
4 LS (H Engl)-2749 Dwight way Bkly 204
- Lissner, Elsa Harris Oakland  
3s LS-581 Vernon st, O Pied 8528
- Litch, Vernie Marian Chico  
2 LS-2738 Regent st Bkly 9359W
- Little, Kenneth Keith San Diego  
22 LS PreM-2411 Durant av Bkly 474
- Littlefield, Blanche Corey Monterey  
22 LS-590 Thirtieth st, O
- Littlejohn, Beattie Pasadena  
11 LS-2136 McKinley av
- Littleton, Calvin Tracy Pasadena  
1 LS PreL-2607 Hearst av Bkly 5913
- Littleton, Covington Henry Scott, Jr. Pasadena  
13 LS PreL-2717 Hearst av
- Liu, Kuh Tsen Changsha, China  
2 CE-P. O. Box 83, Berkeley
- Liversedge, Harry Bluett San Francisco  
3 Agr-2614 Dwight way Bkly 1276

- Livingston, John Hall      Auburn  
 2 Agr-2529 College av      Bkly 7875W  
 Livingston, Philip      Greenfield  
 2 Agr-Conservatory, Campus      Local 82  
 Livingston, Stanton Knowlton Manila, P. I.  
 '1 LS PreM-133 E Cantonment, Pre-  
 sidio, S F      West 6174  
 Lloyd, Eugene Clair      Oakland  
 3 Com-2627 Ridge rd      Bkly 2541  
 Lloyd, Harry Edison      Oakland  
 2 Min-595 Apgar st, O      Pied 4869J  
 Lobree, Alvin A.      San Francisco  
 1 LS PreL-950 Anza st, S F      Pac 6900  
 Lohead, James Kenneth      Fresno  
 4 Com-2520 Virginia st      Bkly 2608  
 Lockett, Virginia Margarite      Flagstaff, Ariz.  
 2 LS-2417 LeConte av      Bkly 5650  
 Lockhart, Viola      Santa Rosa  
 3 LS (H Engl)-2526 Hilgard av      Bkly 1441  
 Lockwood, Elbert Wilson      Los Angeles  
 4 LS and 1 Juris-2616 Virginia st      Bkly 6716  
 Lockwood, Leon Davidson      Rialto  
 2 LS-2505 Russell st      Bkly 2536J  
 Lockwood, Lillian      El Paso, Tex.  
 2 LS-37 Mosswood rd      Bkly 1209W  
 Lockwood, Marian Dwight      Pasadena  
 3 LS PreM-2624 Virginia st      Bkly 3663  
 Lockwood, Walter Robert      Los Angeles  
 4 LS-2528 Ridge rd      Monterey  
 Loeber, Frances Maria      Bkly 6045J  
 1 LS-2215 Fulton st      Auburn  
 Lofland, Emil Mersereau  
 3 LS PreL-2405 Telegraph av      Bkly 5414W  
 Logan, Benjamin Boone      Sacramento  
 4 LS and 1 Juris-2318 Telegraph av      Bkly 5964  
 Logan, Edith Harriet      Los Angeles  
 4 LS (H Hist)-2537½ Fulton st      Bkly 1454W  
 Logan, Lorens Foard      Astoria, Ore.  
 2 LS PreL-2610 Durant av      Bkly 7804  
 Logie, Grace      San Francisco  
 2 LS-2228 Dana st      Bkly 1058  
 Long, Carl Thompson      Santa Monica  
 1 Min-407 Balboa bldg. S F  
 Long, John Floyd      Berkeley  
 1 Com-1719 Addison st      Bkly 3758W  
 Long, Sam Gill      Los Angeles  
 3s Min-2427 Blake st  
 Longyear, Douglas Mackay      Los Angeles  
 3 LS-2717 Hearst av      Bkly 5770  
 Loose, Warren Dean      Provo, Utah  
 1 LS PreL-516 Lake Park av, O      Oakd 3286  
 López, Benjamin Aloysius      Santa Barbara  
 1 LS PreM-2427 Channing way      Bkly 7253
- López, William Gregory      Santa Barbara  
 8 LS-2427 Channing way      Bkly 7253  
 Loraine, Charles Whitney      Los Angeles  
 4 LS and '1 Med-2528 Ridge rd      Bkly 3277  
 Lord, Katherine Amanda      Berkeley  
 2 Chem-2808 Regent st      Bkly 4132W  
 Lord, Miriam Riddell      Eureka  
 1 LS-2228 Chapel st      Bkly 9078W  
 Lorenzo, León Ferrer      Paranaque Rizal, P.I.  
 2 Com-1822 University av  
 Lorimer, Irene Helen      Oakland  
 2 LS-1817 Ninth av, O      Mer 4412  
 Loud, Agnes Elizabeth      Pomona  
 1 LS-2417 LeConte av      Bkly 5650  
 Loutsenheiser, John Joyce      Grass Valley  
 3 LS PreM-2522 Ridge rd      Bkly 5950  
 Love, Dorothy      Oakland  
 3 LS (H Engl)-414 Twenty-sixth st, O  
 Oakd 4858  
 \*Love, Grace Winnans      Berkeley  
 4 LS-2112 Virginia st  
 Love, Sue Middlemas      Berkeley  
 4 LS-1505 Oxford st      Bkly 4309  
 Lovejoy, Alice Vida      Los Angeles  
 '3 LS-2627 Hearst av      Bkly 4009  
 Lovell, Duke Allen      San Diego  
 '3 LS PreA-2642 Bancroft way      Bkly 653  
 Lovell, Minerva Moore      Berkeley  
 3 LS (H Econ)-2717 Claremont blvd  
 Bkly 8008  
 Lovering, Phillips Hawke      St. Helena  
 '4 CE-2515 LeConte av      Bkly 6994  
 Lovett, Emery      Detroit, Mich.  
 1 Agr-1815 Highland pl      Bkly 1682  
 \*Lovett, Roy Irving      Paradise  
 4 LS-2632 Durant av      Bkly 5137  
 Low, Clara Ruth      Denver, Colo.  
 2 LS-2519 Durant av      Bkly 8543  
 Lowary, Rose Eleanor      Sebastopol  
 '2 LS-2428 Channing way      Bkly 6408  
 Lowell, Dorothy Wade      Oakland  
 '2 LS-Hotel Harrison, O      Lkcd 1900  
 Lowell, Eleanor      Alhambra  
 2 LS-2710 Channing way      Bkly 9520  
 Lowell, Frances Caroline      Oakland  
 4 LS (H Hist)-McAdam st, Rock Ridge,  
 O      Pied 5653  
 Lowenberg, Jeanne      San Francisco  
 '1 LS-1000 Sutter st, S F      Frkn 422  
 Lowrey, Rachel Gertrude      Wilmington  
 '3 LS-2627 Hearst av  
 Lowry, Chloe Simms      Gibson City, Ill.  
 1 LS-447 Vernon st, O      Oakd 2422  
 Lowry, Fondalite      Sacramento  
 3 LS (H Latin)-2328 Bowditch st  
 Bkly 6201J  
 Lucas, Blanche      Tillamook, Ore.  
 '2 LS-2542 Durant av      Bkly 3873

- Lucas, Irene Eleanor Maricopa  
 \*2 LS-688 Nineteenth st, O Lksd 8501  
 Lucas, John Joseph Philipsburg, Mont.  
 \*1 Min-2816 Bowditch st Bkly 6504  
 Lucas, Ruth Denver, Colo.  
 \*1 Agr-2712 Benvenue av  
 Luce, Harry Allen Santa Rosa  
 1 LS-1809 Euclid av Bkly 1615  
 Luckasinger, Ralph Louis El Cajon  
 2 Agr-2805 Bancroft way Bkly 7461  
 Ludden, Kathryn Mildred Glendale, Ariz.  
 4 LS-2417 LeConte av Bkly 5650  
 Luddy, Arthur Sacramento  
 1 Com-2388 Fulton st Bkly 5229W  
 Ludwig, Meta Maria Richmond  
 1 LS-2627 Hearst av Bkly 3229  
 Luft, Genevieve Dalton Petaluma  
 4 LS-2821 Bancroft way Bkly 1765  
 Luff, Hale Harper Petaluma  
 1 Com-2607 Hearst av Bkly 5913  
 Luippold, Gottlieb Theodore Bridgeport, Conn.  
 3 CE-2530 College av Bkly 2840  
 Lukes, Gladys Goodyear Santa Cruz  
 3 LS-700 Second av, S F Pac 6586  
 Lum, Donald Dyer Alameda  
 2 LS PreM-1200 San Antonio av, A  
 Ala 272  
 Lund, Carroll Theodore San Rafael  
 4 Agr-University Farm, Davis  
 Lundberg, Victor Hugo Medford, Ore.  
 \*1 Com-2248 Telegraph av Bkly 9011  
 Lundegaard, Ellert Emanuel Oakland  
 2 LS PreM-1827 Grove st, O Oakd 5099  
 Lundell, Ruth Turlock  
 3 LS-2428 Channing way Bkly 6408  
 Lutge, Henry Vincent San Francisco  
 3 CE-2418 Dana st Bkly 3816  
 Lynam, Charles Harold Santa Cruz  
 3 LS-2112 Durant av Bkly 7751  
 Lynch, Grace Jane Stockton  
 4 LS (H Engl)-2509 Regent st  
 Bkly 3606J  
 Lynch, Kenneth Ransom Alameda  
 1 Agr-2529 Hearst av Bkly 40  
 Lynch, Marion Centerville  
 2 Com-2520 Cedar st Bkly 2314  
 Lyon, Lois Josephine Princeton  
 1 LS-2708 Dana st Bkly 1291J  
 Lyon, Lois Valentine San Francisco  
 4 LS (H Pub Health)-2702 Virginia st  
 Bkly 6789  
 Lyon, Lucile Kittredge Oakland  
 \*2 LS-771 Lakeshore av, O Oakd 1732  
 Lyon, Norman Morais Cincinnati, Ohio  
 4 Agr-2427 Channing way Bkly 7325  
 Lyon, Velma Gladys Corning  
 1 LS-2713 Haste st Bkly 2148  
 Lyons, Margaret Mary San Francisco  
 2 LS-1553 Fulton st, S F West 8505  
 Lyons, Will Everett Goldfield, Nev.  
 1 Mec-2520 Durant av Bkly 1675  
 Lyons, William Huggins Stockton  
 \*3 Agr-2524 Dwight way  
 Maas, Ernest Grigg Smith River  
 4 Agr-University Farm, Davis  
 Maas, George Baltus Anaheim  
 3 LS-2211 Fulton st Bkly 6045W  
 Maas, Philip James San Francisco  
 4 CE-157 Noe st, S F Park 1380  
 McAdams, Clarence Arthur San Francisco  
 1 Chem-111 Page st, S F Park 4711  
 McAfee, Wallace Taylor Berkeley  
 1 LS-2782 Hillegass av Bkly 741  
 McAllister, Chester Blume Richmond  
 2 Mec-442 Eighth st, R  
 McAllister, Elliott, Jr. San Mateo  
 1 LS PreL-2522 Ridge rd Bkly 5950  
 McAlpine, Averill George Berkeley  
 1 Com-2155 Grant st  
 Macaulay, Florence Mary Oakland  
 4 LS (H Hist)-5730 Keith av, O  
 Pied 7521  
 McAuley, Leland Charles Oakland  
 2 Com-4837 Shattuck av, O Pied 2825J  
 McBride, Joseph Augustine San Francisco  
 1 Com-2278 Filbert st, S F West 8524  
 McCabe, Anna Harding Crawfordsville, Ind.  
 4 LS-Channing apts Bkly 8425  
 McCabe, Coe Elizabeth Berkeley  
 4 LS-1401 Arch st Bkly 2238  
 McCabe, Merwyn Louis Berkeley  
 3 LS PreL-2424 Russell st Bkly 1750W  
 McCabe, William Leslie Berkeley  
 5 Mec-2424 Russell st Bkly 1750W  
 McCahill, Elva Ames Berkeley  
 4 LS and 1 Juris-2406 Dana st  
 Bkly 7713  
 McCall, Margaret Frances San Francisco  
 1 LS-343 Castenada av, S F Snt 2553  
 McCallister, Lorne Melvin Tulare  
 1 LS-2521 Channing way Bkly 5831  
 McCallum, Frances Emma Oroville  
 1 LS-2417 LeConte av Bkly 5650  
 McCallum, Roy Drummond St. Paul, Minn.  
 4 Agr-1620 Walnut st Bkly 4566J  
 McCandless, Howard Francis Tacoma, Wn.  
 \*2 Min-2610 Durant av Bkly 7804  
 McCann, Francis Underwood  
 Mexico City, Mex.  
 \*1 Com-2523 Piedmont av  
 McCard, Beverly Scott Sacramento  
 \*1 Agr-838 Thirty-second st, O  
 McCarthy, George Henry Salt Lake City, Utah  
 \*3 Mec-2500 Durant av Bkly 5436W  
 McCarthy, Kathleen Oakland  
 1 LS-380 Vernon st, O Oakd 5047  
 McCartv, Gerna Elizabeth San Francisco  
 \*2 LS-720 Powell st, S F Dgle 1647

McClain, William Hathaway	Benicia	McCully, Margaret	Sacramento
1 Mec-2330 College av	Bkly 5098	2 LS-2713 Haste st	Bkly 2148
McClaren, Francis Edgar	Los Angeles	McCumber, Ethel Elizabeth	Madera
1 LS PreL-2425 Bancroft way	Bkly 1743	1 LS-2039 Shattuck av	Bkly 4929
McClasky, Beatrice Adalene	Berkeley	*McCurdy, Hazel Joy	Eureka
1 LS-2330 Parker st	Bkly 2419	4 LS-2526 Hilgard av	Bkly 1441
MacClatchie, Eva Howard		McCutchan, William Alfred	Healdsburg
	Minneapolis, Minn.	4 Agr-2627 Ridge rd	Bkly 2541
*2 LS-2627 Hearst av	Bkly 4009	McCutchen, George Ervine	Berkeley
McClean, Melvin Jessup	Corning	4 LS and 1 Juris-2520 Durant av	Bkly 1675
1 LS PreM-2614 Dwight way	Bkly 1276	McCutchen, Perry Ralph	Bakersfield
McCleary, Mary Abigail	Lodi	2 LS PreL-2200 Piedmont av	Bkly 6760
2 LS-2505 College av	Bkly 808	McDermid, Margaret Anne	Oakland
McClure, Claire Marlon	Berkeley	4 LS-2737 Boulevard, O	Frwl 141
*3 LS-1509 Alcatraz av	Bkly 8743	McDermott, Lucy Mary	San Diego
McCollam, Millard Earl	Berkeley	1 LS-3880 Brighton av, O	Mer 3589
4 Agr-1620 Walnut st	Bkly 4566J	McDevitt, Grace Catherine	San Francisco
McCollow, Francis Brown	Hayward	*1 LS-54 Collins ter, S F	West 8299
4 LS-1616A Virginia st	Bkly 8299J	Macdonald, Alice Nettleton	Oakland
McCollow, Norman Harold	San Jose	3 LS (H Latin)-3316 Laguna av, O	Frwl 669
1 Agr-1118 Oxford st	Bkly 1670	Macdonald, Archibald Sylvester	Oakland
McCollow, Ross	Los Angeles	1s Com-414 Fairmount av, O	Oakd 8426
4 Chem-2600 Bancroft way	Bkly 6819	Macdonald, Dorothy Childs	San Francisco
McCollow, William Arthur	San Francisco	3 LS-2629 Haste st	Bkly 8287
4 Chem-Chemistry bldg, Campus		MacDonald, Ernest Mansen	Berkeley
McCollow, William Donald	Los Molinos	3 Mec-2912 Deakin st	Bkly 4673
*1 Chem-848 Forty-third st, O		Macdonald, Gladys	Oakland
McCone, James Francis	San Francisco	3 LS-371 Thirty-eighth st, O	
1 Min-1726 Euclid av	Bkly 6706	McDonald, Hayward Cooper	Modesto
McConnell, Robert P.	Mokelumne Hill	5 CE-2624 Haste st	Bkly 7418W
*2 Min-5203 Genoa st, O		MacDonald, Hugh Angus	Philipsburg, Mont.
McConnell, Vincent Dye	Los Angeles	1 LS PreL-2438 Durant av	Bkly 4416J
1 LS PreL-2824 College av	Bkly 5110W	MacDonald, John Haskell	Providence, R. I.
McCorkle, Frank Ellsworth	Orange	*1 LS-Treehaven apts	Bkly 8899J
3 Com-1728 Arch st	Bkly 965	McDonald, John Quincy	Lompoc
McCormick, Clarence	Orosi	3 Agr-University Farm, Davis	
2 Com-2417 LeConte av	Bkly 5650	Macdonald, Mima Louise	Park City, Utah
*McCormick, Elsie Catherine	Alameda	1 LS-2641½ Channing way	Bkly 2276J
4 LS-1421 Benton st, A	Ala 3473	MacDonald, Roy Philip	Oakland
McCormick, Irwin Nile	Orosi	1 Mec-2900 Linden st, O	Lksd 4188
*2 LS-2217 Fulton st	Bkly 3810	Macdonald, Russell Flavius	Oakland
McCormick, Lola Elizabeth	Orosi	3 Com-2529 Hearst av	Bkly 40
4 LS-2217 Fulton st	Bkly 3810	McDonald, Ruth Bigelow	Modesto
McCoy, Horace Knight	Sacramento	3 LS-2624 Haste st	Bkly 7418W
3 Agr-1730 La Loma av	Bkly 8718	McElrath, Clifford	Oakland
McCoy, Paul Johnston	San Leandro	*5 LS-University Farm, Davis	
*2 Agr-2522 Ridge rd	Bkly 5950	McEntyre, Doris Elizabeth	Berkeley
McCray, Gladys Lillian	Bakersfield	4 LS (H Engl)-2515 College av	Bkly 7344W
3 LS-2521 Dwight way	Bkly 6646W	McEntyre, Penelope R.	Berkeley
McCreary, Howard Harry	Berkeley	3 LS-2515 College av	Bkly 7344W
1 LS-2318 Durant av	Bkly 1966	McFarland, Elsie Jeanette	Pasadena
McCulloch, Frank Dole	Upland	4 LS (H Math)-2514 Virginia st	Bkly 7792
4 Com-2616 Virginia st	Bkly 6716	McFarland, George Curtis	Sacramento
McCulloh, Ramona	Ione	4 Mec-2333 College av	Bkly 1722
*1 LS-2337 Ward st			
McCullough, Everett Iola	Berkeley		
3 LS-2618 Durant av	Bkly 8858		
McCullough, Gailor Sayle			
	Twin Falls, Idaho		
3 LS-2316 Bowditch st	Bkly 6504		

- McFarland, James Elden Berkeley  
 '4 LS and 1 Juris-1945 Berkeley way  
 Bkly 1800
- McFarland, Joseph Benjamin North Yakima, Wn.  
 1s Agr-2501 Ridge rd Bkly 1835
- McFarland, Mildred L. Omaha, Nebr.  
 1 LS-1819 Seventh av, O Mer 1195
- Macfie, Elizabeth Anne Alhambra  
 3 LS-1700 Euclid av Bkly 1625
- McGarry, Ruth Elaine Portland, Ore.  
 1 LS-2401 Durant av Bkly 6681
- McGee, Helen Sutter Creek  
 '2 LS-2682 Filbert st, S F Flmr 868
- McGill, Edna Sawyer Berkeley  
 1s LS-839 Mendocino rd Bkly 6934W
- McGinnis, Alice Hoffman Truckee  
 '1 LS-2010A Vine st
- McGinnis, Mary Catherine Waterville, Wn.  
 '1 LS-1334 E Thirty-eighth st, O
- McGinty, Ernest Alexander Oakland  
 4 Mec-1129 Shattuck av Bkly 8908J
- McGinty, Ruth Mary Oakland  
 1 LS-1129 Shattuck av Bkly 3908J
- McGlynn, Ruth San Francisco  
 4 LS-2411 Washington st, S F West 4754
- McGovern, Philura Adelaide Berkeley  
 2 LS-1540 Spruce st Bkly 921W
- McGovern, Ramona Elizabeth Oro Loma  
 '1 LS-Spruce st and Regal rd Bkly 7012W
- McGowan, Gertrude Clara San Francisco  
 1 LS-206 Haight st, S F Park 1117
- McGowan, Harold Ernst Berkeley  
 2 LS-38 Brookside Bkly 5711W
- McGown, Dudley Brooke San Francisco  
 2 Mec-1247 Forty-seventh av, S F Snt 2190
- McGrane, Eugene L. Vallejo  
 '2 Min-2500 College av Bkly 5941
- McGrath, Allen Kier Berkeley  
 2 LS PreM-1811 Berkeley way Bkly 2904
- McGrath, Mabel Elizabeth Sierra City  
 2 LS-1613 Grove st Bkly 6329J
- McGrath, Merle Helen Berkeley  
 '1 LS-1613 Grove st Bkly 6329J
- McGrath, Warren Thomas Berkeley  
 2 LS PreL-1618 Grove st Bkly 6329J
- MacGregor, Charlotte Favor Piedmont  
 3 LS PreL-622 Highland av, P Pied 2691
- MacGregor, Helen Roberta Oakland  
 1 LS PreL-731 Sixtieth st, O Pied 658
- McGuinness, Albert Leo San Francisco  
 2 LS PreM-2601 Durant av Bkly 23
- McGurrin, Frank Buckley Oakland  
 '1 LS-Sequoia Hills, O Elm 123
- McIntyre, Earl Eugene San Luis Obispo  
 '1 LS-2228 Dana st
- MacIntyre, Ralph Y. Oakland  
 2 LS PreL-385 Thirty-fourth st, O
- Maciver, Ivander El Paso, Texas  
 4 LS (H Hist)-Lafayette apts Bkly 4026
- McJunkin, Henry Smith Gilroy  
 '1 Min-1805 Nason st, A
- McKay, Donald Graham Oakland  
 2 Agr-9232 Hillside st, O Elm 941
- Mackay, Dorothy Louise San Francisco  
 3 LS-166 Saturn st, S F Mrkt 8677
- McKay, Howard Smith Portland, Ore.  
 1 LS-2521 Hearst av Bkly 708
- McKay, William Ross Lemoore  
 4 LS and 1 Juris-2248 Telegraph av Bkly 9011
- Macke, Una San Diego  
 4 LS-2700 College av Bkly 1442J
- McKee, Hortense Lyman San Leandro  
 '1 LS-1210 Clarke st, S L S L 18J
- McKee, John Ritchie Berkeley  
 3 Com-1945 Haste st Bkly 2054
- McKellips, Elise Grace Oakland  
 2 LS-4794 Edgewood av, O Mer 2271
- MacKenzie, Donald MacPherson San Francisco  
 2 Com-2382 College av Bkly 1184
- MacKenzie, Hugh Fraser San Francisco  
 4 LS-2316 Bowditch st Bkly 6504
- McKenzie, Malcolm Durham Martinez  
 1 LS PreL-2614 Dwight way Bkly 2176
- Mackenzie, Margaret Beaton Portland, Ore.  
 '1 LS-2401 LeConte av
- McKenzie, Norah Concord  
 4 LS-2749 Dwight way Bkly 204
- McKern, Will Carleton Fresno  
 4 LS (H Anthropol)-2216 Haste st
- McKim, Arthur Beresford Suisun City  
 1 Mec-2011 Grant st Bkly 9018J
- McKinlay, Dora Berkeley  
 2 LS-2125 Hearst av Bkly 2125
- McKinlay, John Bradburn Santa Barbara  
 3 LS PreL-2607 Hearst av Bkly 5914
- MacKnight, Mildred Margaret Berkeley  
 1 LS-2609 LeConte av Bkly 8836W
- McKune, Floyd Theall Long Beach  
 4 CE-2411 Hilgard av Bkly 5520W
- MacLachlan, Kenneth Allanton Berkeley  
 2 Com-1600 Milvia st Bkly 2360W
- McLaren, Richard Ashe San Francisco  
 4 LS-1815 Highland pl Bkly 1682
- McLaughlin, Almira Ada Lemoore  
 2 LS-2749 Dwight way Bkly 204
- McLaughlin, Edward Chester Berkeley  
 1 Chem-2716 Grove st Bkly 7242J
- McLaughlin, Lenore Los Angeles  
 3 LS-1736 Oxford st Bkly 7247

- McLaughlin, Margaret La Jolla  
1 LS-2714 Ridge rd Bkly 9093  
MacLean, Annetta Louise Berkeley  
4 LS-1929 Rose st Bkly 2106W  
McLean, Arthur Lawrence Berkeley  
3 LS-Cioyne Court Bkly 4710  
McLean, Helen Grieve Honolulu, T. H.  
11s LS-2636 Hilgard av Bkly 4397  
McLean, Lucile Rossanna Exeter  
1 LS-2417 LeConte av Bkly 5650  
McLear, Alice Bush Wilmington, Del.  
11 LS-15 Hillcrest court Bkly 6214  
McLellan, Ruby Elizabeth Oakland  
2 LS-850 Calmar av, O Oakd 4710  
McLelland, Mathilde Shreveport, La.  
4 LS-2417 LeConte av Bkly 5650  
McLennagan, Edith Marion Berkeley  
2 LS-2728 Belrose av Bkly 3434  
MacLeod, Clarence Randolph New York, N. Y.  
12 LS-2518 Bancroft way Bkly 5062J  
MacLise, Helen Oakland  
2 LS-383 Vernon st, O Oakd 1623  
McMahon, Alvin Edward San Francisco  
2 Mer-2304 Telegraph av Bkly 3428  
McManus, Arthur Samuel Bakersfield  
2 LS PreL-2226 Chapel st Bkly 879  
MacMannus, Josephine Marie Pasadena  
11 LS-2335 Warring at Bkly 5557  
McManus, Walter Stewart Berkeley  
2 Com-2306 Leavenworth st, S F Ppt 5407  
McMaster, William Robert Crescent City  
1 LS PreL-2507 Ellsworth at Bkly 6216  
McMasters, Lera Echo San Jose  
2 Com-2311 Bancroft way Bkly 7877  
McMillin, Flossie Minerva Redondo Beach  
2 LS-1828 Cedar st  
McMillin, Iva Edene Berkeley  
12 LS-1963 Napa av Bkly 1324W  
McMillin, Oscar James Berkeley  
2 CE-1963 Napa av Bkly 1324W  
McMorrow, Joseph St. Louis, Mo.  
3 LS (H Engl)-1734 Walnut st  
MacMullen, Gerald Fischer Coronado  
1 Mer-2425 LeConte av Bkly 4334  
McMurrchie, Ethel Everett, Wash.  
1 LS-2221 Atherton st Bkly 2035J  
McNamara, Arthur Ambrose Bakersfield  
1 LS PreM-2545 Regent at Bkly 1708W  
McNamara, John Andrew San Francisco  
1 LS PreL-7584 Eighth av, S F Pac 7534  
McNear, Lucretia San Rafael  
11 LS-2420 College av  
McNeely, Alberta Sacramento  
4 LS (H Phys Ed)-2713 Haste st Bkly 2148  
McNeill, Alice Mildred Oakland  
11 LS-1424 Ninth av, O Mer 4569  
Macomber, Henry Wade Alameda  
3 LS PreM-2103 Santa Clara av, A Ala 3804W  
Macon, Viola Madera  
1 LS-2435 Haste st Bkly 2279W  
McPhee, Julian Aeneas San Francisco  
4 Agr-3324 Twenty-first st, S F Man 557  
Macpherson, Ethel Marguerite Sacramento  
2 LS-2713 Haste st Bkly 2148  
McPherson, Flora Ethel Orosi  
11s LS-2136 McKinley av Bkly 408  
Macpherson, Fraser Lapp San Diego  
3 LS PreM-2330 College av Bkly 5098  
McPherson, Lloyd Haughton Martell  
2 LS-109 Montecito av, O  
McQuesten, Leavitt Mead Santa Cruz  
3 Agr-2501 Ridge rd Bkly 1335  
McQuoid, Maude Princeton  
3 LS-2566 Buena Vista av Bkly 3244W  
McRae, Connell Chisholm Berkeley  
4 Mer-2243 Virginia st Bkly 7580W  
McSharry, Edith Ellen Merced  
1 LS-1739 Euclid av Bkly 493  
McTaggart, Garrett Rich Stockton  
14 LS and 11 Med-2028 Bancroft way Bkly 3222  
McTarnahan, John Wallace Portland, Ore.  
11 LS PreM-2345 College av Bkly 62  
McVey, John Ignatius San Diego  
4 LS PreA (H)-2425 LeConte av Bkly 4334  
McVey, Margaret Rosemary San Diego  
2 LS-2721 Haste st Bkly 8800  
Maddox, Gavnor San Francisco  
3 LS-1159 Hyde st, S F Frkn 310  
Maddox, Philip Ford Sacramento  
2 LS-2400 Dana st Bkly 2388  
Maddux, Joseph Hirschfelder Santa Rosa  
1 LS PreM-2519 Ridge rd Bkly 1416  
Madelev, Alice Sacramento  
1 LS-2614 Haste st Bkly 1507J  
Madison, Clinton Rice Petaluma  
11 Com-2607 Hearst av Bkly 5913  
Madison, Marshall Pierce San Francisco  
4 LS and 1 Juris-1815 Highland pl Bkly 1682  
Madison, Mildred Ethlynne Berkeley  
3 LS PreA-2621 Haste st Bkly 2044J  
Madsen, Louise Hamborg Solvang  
3 LS-2532 McGee av Bkly 5481J  
Magaw, Martha Kathryn Franklin, Ind.  
2 LS-2709 Channing way Bkly 8528  
Magee, George Richard Oakland  
2 LS PreM-820 Thirty-sixth av, O Frvl 836W  
Magee, William Adam, Jr. Oakland  
12 LS-2607 Hearst av Bkly 5913  
Maggs, Frederick George San Francisco  
2 Med-55 Alpine ter, S F Park 227

- Magnus, Charles Ernest Los Angeles  
2 LS-2418 College av Bkly 4440
- Maguire, Alfred Leo Los Angeles  
14 LS-2330 Telegraph av Bkly 4429
- Maguire, Leo Joseph Los Angeles  
13 LS-2330 Telegraph av Bkly 4429
- Mah, Margaret Katherine San Rafael  
1 LS PreM-3050 Hillegass av
- Mahan, Henry Weston Pasadena  
13 LS PreL-2345 College av Bkly 62
- Mahoney, John Francis San Francisco  
11a LS-2542 Durant av Bkly 3873
- Maier, Herbert Oakland  
14a LS PreA-904 E Eleventh st, O Mer 2705
- Mailliard, Adolph Page San Francisco  
11 Agr-2461 Gough st, S F Frkn 1455
- Maina, Andrew John San Francisco  
1 CE-50 Boyce st, S F Pac 1709
- Mains, Frances Virginia Berkeley  
1 LS-2417 LeConte av Bkly 5650
- Makin, Nina Goldthwaite San Francisco  
1 LS-1855 Sacramento st, S F Papt 1248
- Maldonado, Jules Berkeley  
12 Mee-2033b Channing way Bkly 8303J
- Maley, Simkha Harbin, Manchuria  
11 Mee-2235 1/2 Chapel st Bkly 8196J
- Mallinson, Annie Lynam Oakland  
11 LS-63 Pearl st, O Lksd 3708
- Malloch, James Morrow Napa  
3 LS-2502 Dana st
- Malloch, Walter Scott Napa  
2 Agr-2502 Dana st
- Mallon, Mildred Alameda  
1 LS PreL-1007 Grand st, A Ala 297
- Malm, George Elmer Dos Palos  
1 Agr-2228 Dana st Bkly 1053
- Maloney, Estelle Lurline Napa  
2 LS-28 Glen av, O
- Maloney, Jessie Los Angeles  
11 LS-1610 Arch st
- Maltbr, Katharine Dorenda Concord  
1 LS-Concord Con 8
- Manetta, Laura Claire Oakland  
1 LS-1805 Hearst av
- Manetta, William Joseph Oakland  
1 CE-1805 Hearst av
- Manildi, Joseph Secondo Santa Cruz  
2 Mee-2500 College av Bkly 5941
- Manlev, Ida Marcia San Francisco  
11a LS-688 Geary st, S F Pspt 1659
- Mannhart, Elwyn Herman Oakland  
1 LS PreL-747 The Alameda Bkly 8093J
- Mannv, Catharine Frances San Francisco  
3 LS-2237 Atherton st
- Manthev, Julius Belvin Stockton  
3 CE-2618 Durant av Bkly 8858
- Manuel, Helen Louise Oakland  
2 LS-147 Kempton av, O Oakd 6138
- March, Helen Dorothy Santa Cruz  
12a LS-2420 Fulton st Bkly 8367
- March, Willis Charles Kalispell, Mont.  
12 Com
- Marchant, Margaret Ione  
4 LS-449 Fifty-ninth st, O Pied 7288W
- Maris, Robert Charles Smith River  
4 Agr-University Farm, Davis
- Mark, Beatrice Mitchell Oakland  
3 LS (H Econ)-931 E Twenty-fourth st, O Mer 1316
- Mark, Stephen Gunn San Rafael  
3 Chem (H)-2526 Durant av Bkly 462
- Markheim, Bessie Rae Stockton  
2 LS-1715 LeRoy av Bkly 2851
- Marks, Miriam Dina Berkeley  
2 LS-2741 Dwight way Bkly 1281
- Marks, Paul Lindsay San Francisco  
1 LS-1601 Lake st, S F
- Marks, Ramona Honolulu, H. T.  
3 LS-2714 Ridge rd Bkly 9093
- Marlow, Algeline San Diego  
4 LS-2401 Durant av Bkly 6681
- Marquardsen, Ernest Frederick Buhl, Idaho  
2 Com-2501 Ridge rd Bkly 1335
- Marquis, Charles Edward Berkeley  
3 LS PreM-2617 Durant av Bkly 373
- Marr, Helen Branard Berkeley  
1 LS-1603 Marin av Bkly 4581
- Marrin, Paul Sylvester Twin Falls, Idaho  
4 LS and 1 Juris-2551 Dwight way Bkly 3688W
- Marsat, Adrienne Los Angeles  
3 LS-1740 Walnut st Bkly 7392
- Marsh, Robert Lane Nordhoff  
1 Com-2229 Channing way Bkly 2113
- Marshall, Elizabeth Eureka  
1 LS PreM-2624 Virginia st Bkly 3663
- Marshall, Gertrude Elsie Los Angeles  
2 LS-2421 LeConte av Bkly 3062
- Marshall, James Ancrum Berkeley  
4 Agr-2947 Piedmont av Bkly 4263
- Marshall, Maud Ethel Oakland  
11a LS-2904 Webster st, O Oakd 5833
- Martens, Richard George San Francisco  
4 Agr-2400 Bancroft way Bkly 78
- Martin, Edward Atherton Oakland  
3 LS PreL-1432 E Thirty-second st, O
- Martin, Eva Esther Santa Ana  
2 LS-2435 Hilgard av Bkly 6406
- Martin, George Earl Berlin, Germany  
1 Com-2607 Hearst av Bkly 5913
- Martin, Harry Claude Chanute, Kans.  
12 LS-2820 Bancroft way
- Martin, Hazelle Hortense Los Angeles  
3 LS-644 Miranda st, O
- Martin, Leigh Emerson Berkeley  
3 Com-2605 Durant av Bkly 552
- Martin, Lorraine Marie San Francisco  
1 LS-208 Central av, S F Park 3599

- Martin, Mabel Long Beach  
8 LS (H Engl)-2434 Piedmont av Bkly 8341
- Martin, Margaret Elizabeth Oakland  
2 LS-2908 McClure st, O Oakd 5570
- Martin, Vibella Oakland  
1 LS-571 Spruce st, O Mer 1820
- Martin, William Arthur San Francisco  
1 LS PreM-2522 Ridge rd Bkly 5950
- Martinelli, Stephen Gaspar Watsonville  
8 LS PreA-2717 Hearst av Bkly 5770
- Martinez, Lewin Wethered Berkeley  
4 CE-2401 Prospect st Bkly 8994W
- Martini, Iride E. San Francisco  
12 LS PreM-1802 Union st, S F West 7898
- Martyr, Frederick Augustus Oakland  
16s LS-2961 Pine av Bkly 6932
- Marvin, Irving Atkinson Oakland  
1s Agr-144 Grand av, O Oakd 1571
- Maschmeyer, Estelle Hildegard Boise, Idaho  
1 LS-2434 Piedmont av Bkly 8341
- Maslin, Edith Maud Berkeley  
1 LS-2323 Haste st Bkly 4708
- Maslin, Edwin Marshall Watsonville  
4 LS-2323 Haste st Bkly 4708
- Mason, Aileen Patricia Berkeley  
1 LS-2201 Ward st Bkly 7075W
- Mason, Clifford Verne Lodi  
4 LS PreM-2227 Dwight way Bkly 7711
- Mason, Doris Ashton Santa Barbara  
2 LS-2627 Hearst av Bkly 4009
- Mason, Hillard Austin Los Angeles  
8 Chem-2334 Carlton st Bkly 2478W
- Mason, Katharine Rose Berkeley  
8 LS-3144 College av Pied 4575
- Masten, Benjamin Frank Oakland  
4s CF-635 Merrimac st, O Oakd 909
- Masters, Paul Wilbur El Paso, Texas  
8 LS PreL-2625 Hearst av Bkly 7614
- Matheson, Edmund Ernest Concord  
12 Mec-2425 Bancroft way
- Mathews, Harold Rufus Berkeley  
1 LS-2224 Dana st Bkly 6656
- Mathews, John Hays Los Angeles  
8 LS PreL (H Hist)-2228 Dana st Bkly 1058
- Mathews, Phillip Strong Pasadena  
8 LS PreL-1617 La Loma av Bkly 5615J
- Mathews, Phyllis Muriel Fort Bragg  
8 LS-2420 College av Bkly 8891
- Mathews, William Wadsworth Los Angeles  
8 LS PreL-2228 Dana st Bkly 1053
- Mathieu, Julien, Jr. Oakland  
2 Min-555 Chetwood st, O Pied 1210
- Mathison, Calla Los Angeles  
4 LS and 1 Juris-2520 Cedar st Bkly 2314
- Matignon, Edmond Charles Berkeley  
1s Chem-2232 Blake st Bkly 1069W
- Matsushita, Shutaro Los Angeles  
2 LS PreM-928 Twenty-fourth st, O
- Matsushita, Sotaro Los Angeles  
4 LS-923 Twenty-fourth st, O
- Mattern, Laurinne Easter Berkeley  
2 LS-2701 Regent st Bkly 5072W
- Matteson, Mildred Oakland  
2 LS-4032 Brighton av, O Mer 2079
- Matthew, John Britton Santa Rosa  
1 LS-2596 Buena Vista av Bkly 3939J
- Matthew, Marian Hilliard Santa Rosa  
1 LS-2596 Buena Vista av Bkly 3939J
- Matthew, Theodore Santa Rosa  
1 LS PreM-2596 Buena Vista av Bkly 3939J
- Matthews, Phoebe St. Louis, Mo.  
2 LS-2502 Hilgard av Bkly 1961J
- Maule, Stuart Marshall Alameda  
1 Agr-1612 Santa Clara av, A Ala 1671
- Maxwell, George Lawrence, Jr. Woodland  
4 LS (H Philos)-2701 Hearst av Bkly 2421
- May, Arthur Raymond Santa Maria  
4 Min-254 E Twelfth st, O Mer 640
- May, Douglas Angels Camp  
2 LS PreL-2316 Bowditch st Bkly 6504
- Mavenbaum, Maud Oakland  
4 LS-2828 Bowditch st Bkly 6201J
- Maver, Vera Lisitta Ocean Park  
1 LS-505 Fifteenth av, S F Pac 8683
- Maynard, Almy Cofran Berkeley  
4 Mec-2401 Virginia st Bkly 1171W
- Mavnea, Walter William San Francisco  
2 LS PreL-1903 Bonita av
- Mavo, Josef Edgar Sacramento  
13 Agr-2316 Bowditch st Bkly 6504
- Mavock, Robert Stoney Gilroy  
4 LS and 1 Juris-2500 Bancroft way Bkly 1848
- Mavock, Welbourn Franklin Gilroy  
4 LS and 1 Juris-2500 Bancroft way Bkly 1848
- Maze, Irwin Strange Gilroy  
11 Agr-2141 Berkeley way Bkly 4270
- Maze, Merton Melville Modesto  
2 LS PreL-2800 Regent st Bkly 6842
- Mazzera, Harry Albert Stockton  
2 LS PreL-2231 Dana st Bkly 6361J
- Mead, Arthur Elwood Berkeley  
2 Agr-6215 Chabot rd, O Pied 3102J
- Meagher, Maude Marion San Francisco  
4 LS (H Engl)-1444 Seventy-ninth av, O Elm 73
- Meckfessel, Russell Gent Berlin  
1 Agr-2601 Channing way Bkly 5904
- Meddaugh, Hazel Kirke Watsonville  
4 LS-2311 Bancroft way Bkly 214
- Medigovich, Milicia Bisbee, Ariz.  
2 LS-2506 College av Bkly 4887
- Medina, Leland James Modesto  
8 Agr-University Farm, Davis



Mee, Karl James	El Paso, Texas	Merrell, Charles Clarence	Los Angeles
8 Min-1807 Grant st		*2 LS PreL-2418 College av	Bkly 4440
Meek, Carolyn Stevens	Antioch	Merriam, Lawrence Campbell	Berkeley
1 Agr-2627 Hearst av	Bkly 8229	1 CE-2401 Bowditch st	Bkly 1908
Meeker, Pearl Lily	Tulare	Merrick, Mignon Beth	San Diego
*2 LS-2718 Haste st	Bkly 2148	1 LS-2831 Dwight way	Bkly 2914J
Meeks, Clara Agnes	Petaluma	Merrill, Belle Ellingsen	Oakland
4 LS-2916 Garber st	Bkly 6260	2 Med-139 Hugo st, S F	Snat 2668
Meese, Edwin, Jr.	Oakland	Merrill, David Robert	Berkeley
8 LS PreL-4424 Edgewood av, O		4 LS (H Chem)-2609 College av	
	Mer 2762		Bkly 1790W
Meh, William Chauncey	Canton, China	Merrill, Elizabeth Amelia	Los Angeles
*1s Mec-1789 Carlton st	Bkly 5540	1 LS-2725 Channing way	Bkly 7950
Meherin, Elenore Frances	San Francisco	Merrill, Grace Evelyn	Ashland, Ore.
8 LS-2204 Durant av	Bkly 1802W	4 LS-2519 Parker st	Bkly 6090J
Meherin, Joseph Minton	San Francisco	Merrill, Harold Arthur	Ashland, Ore.
1 LS PreM-2204 Durant av	Bkly 1802W	1 LS-2917 Haste st	Bkly 5077W
Meikle, Gertrude Mary	Berkeley	Merrill, John Althouse	Albany, Ore.
1 LS-2526 Hillegass av	Bkly 5075W	2 LS PreM-2434 Derby st	
Mejia, Edwin Joseph	San Francisco	Merrill, Ruth Earl	Los Angeles
2 CE-2425 LeConte av	Bkly 4384	4 LS (H Bot)-2537½ Fulton st	
Mekler, Levie Aronovich			Bkly 1454W
	Harbin, Manchuria	Merritt, James Bandy	Woodland
8 Min-2248 Fulton st	Bkly 266J	2 Com-2522 Ridge rd	Bkly 5950
Mellen, Romney Johnson	Los Angeles	Merritt, Marguerite	Oakland
1 Chem-2418 Dana st	Bkly 8814	4 LS-1824 Harrison st, O	Lksd 609
Mellin, Willard Colbr	Vallejo	Merritt, Ruby Bernice	Petaluma
1 LS-2901 Channing way	Bkly 1778	1 LS-2304 Telegraph av	Bkly 3428
Mellon, Lorene	Oakland	Merry, Lula Pearl	Ceres
1 LS-649 Sixty-second st, O	Pied 5771	1 LS-1619 Spruce st	Bkly 2402W
*Melody, Caroline Elisabeth	Cloverdale	Mersereau, Margaret Irene	Oakland
4 LS-2438 Warring st	Bkly 8184W	4 LS (H Hist)-285 Fairmount av, O	
Meltzer, Leonard Joseph	Piedmont		Oakd 7035
4 LS and 1 Juris-228 Ricardo av, P		Merwin, Ogle Charles	Sacramento
	Pied 6780	2 Agr-2332 College av	Bkly 1134
Melvin, Bradford Morse	San Francisco	Metcalf, Kenneth McCausland	Los Angeles
4 LS-2311 Bowditch st	Bkly 7037W	*4 LS PreM-2311 Piedmont av	Bkly 4748
Mensing, Barbara Martha	Portland, Ore.	Metcalf, Ray Will	Salem, Ore.
3 LS (H Engl)-1736 Oxford st		3 Chem-2001 Allston way	Bkly 6710
	Bkly 7247	Metcalfe, George Brownlow	Kennett
Mensor, Merrill Coleman	San Francisco	1 Min-2251 College av	Bkly 9107
*1 LS PreM-2618 Durant av	Bkly 8858	Metson, Wilfred Graham	San Francisco
Mentzer, H. Stanley	San Francisco	*3 LS-2425 LeConte av	Bkly 4334
1 LS PreM-4428 Twenty-third st, S F		Metzner, Mildred	San Francisco
Mercer, Arthur Henry	San Francisco	*1 LS PreM-1261 Guerrero st, S F	
1 LS PreM-1255 Twenty-eighth av, S F	Snat 617		Valen 5930
Mercer, Pauline Louise	Oakland	Meyer, Annette Jean	Antioch
1 LS-480 Thirty-eighth st, O		1 LS-1791 Hopkins st	Bkly 4564J
Meredith, Dorothy Dalrymple	Berkeley	Meyer, Edith Catharine	Lemoore
1 LS-2780 Haste st	Bkly 3769J	8 LS-2421 LeConte av	Bkly 3062
Meredith, Guifford Fuller	Upland	Meyer, George Harold	Alameda
3 Agr-University Farm, Davis		2 LS-1111 Regent st, A	Ala 965
Mereen, Edith Amanda	Berkeley	Meyer, Harry Barthold	San Francisco
3 LS-2959 Russell st	Bkly 6181	8 Mec-652 Central av, S F	West 6895
Merenbach, Nathan	San Francisco	Meyer, Irwin Oscar	San Francisco
*3 LS PreL-2416 College av	Bkly 8476J	2 LS-2318 Telegraph av	Bkly 5964
Mering, Sumner Needham	Sacramento	Meyer, Rollin Eugene	Oakland
1 LS PreL-1111 Hollywood av, O		4 Mec-628 Twelfth st, O	Oakd 2964
	Mer 4348	Meyer, Wilson	San Francisco
		8 Com-1726 Euclid av	Bkly 6706

Meyers, Anna Margaret	Los Angeles	Miller, Howard Elmo	Placerville
3 LS-2705 Hearst av	Bkly 745W	2 LS-2316 Bowditch st	Bkly 6504
Meyers, Marion Thomas	Los Angeles	Miller, James Alexander	Piedmont
2 Agr-2705 Hearst av	Bkly 745W	4 Agr-University Farm, Davis	
Meyers, Mildred Sophie	Alameda	Miller, Leffler Bequette	Bakersfield
1 LS PreA-2021 Alameda av, A	Ala 1116	3 LS PreA-2614 Dwight way	Bkly 1276
Meyers, Stephen Louis	San Francisco	Miller, LeRoy Jesse	Elk Grove
1s Chem-1315 Spruce st		2 LS-2241 College av	Bkly 1139W
Michelbacher, Aimee Juliet	Riverside	Miller, Madalyn	Berkeley
4 LS (H Econ)-2210 Eunice st	Bkly 4957J	1 LS-1633 Arch st	Bkly 5846
*Mickel, Laurence	Ventura	Miller, Margaret Smith	San Francisco
4 LS and 1 Juris-2318 Telegraph av	Bkly 5964	<sup>1</sup> 1 LS-2523 Steiner st, S F	Pimr 2912
Mickey, Martel Irvin	Berkeley	Miller, Maude Marie	Pasadena
4 CE-2606 Benvenue av	Bkly 2297W	2 LS-1736 Oxford st	Bkly 7247
Middough, Miles Way	Long Beach	Miller, Myrtle Edna	Richmond
3 Com-2625 Hearst av	Bkly 7614	<sup>1</sup> 1s LS-162 N Twelfth st, R	Rchd 907J
Milbank, Lee Borden	Los Angeles	Miller, Thomas Ralph	Santa Rosa
2 LS-2400 Bancroft way	Bkly 78	<sup>1</sup> 1 Agr-2318 Telegraph av	Bkly 5964
Milburn, George Jackson	Los Angeles	Miller, Val Weniger	Oakland
2 Chem-2333 College av	Bkly 1722	1 LS-4256 Gilbert st, O	Pied 7696W
Miles, Charles	Berkeley	Miller, Vera Douglas	Oakland
2 LS-2463 Prince st	Bkly 1928J	4 LS (H Latin)-4316 Everett av, O	Mer 606
Miles, David Porter	Redding	Millier, Irene Ada	Los Angeles
<sup>3</sup> 3 Chem-2646 Dwight way	Bkly 4104	<sup>1</sup> 1 LS-2531 Ridge rd	Bkly 6485
Miles, Dorothy	San Francisco	Milliken, Ernest Charles	Sacramento
4 LS-2624 Virginia st	Bkly 8663	2 LS PreL-2501 Ridge rd	Bkly 1385
Miles, Sara	Los Molinos	Milliken, Frances Clarissa	Oakland
1 LS-1421 Hawthorne ter	Bkly 3827	1 LS-3858 Howe st, O	Pied 5163
Miles, Winifred Charlotte	Berkeley	Milliken, Mary Cobb	Oakland
2 LS-2463 Prince st	Bkly 1928J	1 LS-3858 Howe st, O	Pied 5163
Millar, Grace	Oakland	Mills, Bernice Louise	Lemoore
4s LS-862 Fifty-fourth st, O	Pied 2121J	1 LS-2727 Regent st	Bkly 3834J
Millard, Mary Elizabeth	Vancouver, B.C.	Mills, James McVicar	Berkeley
2s LS-2730 Belrose av	Bkly 3761	4 Agr-University Farm, Davis	
Miller, Carey Dunlap	Boise, Idaho	Mills, Marion Josephine	Berkeley
4 LS (H Hshld Sci)-2514 Virginia st	Bkly 7792	1 LS-2962 Russell st	Bkly 4974
Miller, Charles Lortz	Oakland	Mills, Mary Belle	Berkeley
3 LS-5201 Shattuck av, O	Pied 2579	<sup>1</sup> 1 LS-2633 Etna st	Bkly 2822J
Miller, Dorothy Dorris	Alturas	Mills, Olive	Alameda
4 LS-2380 Russell st	Bkly 7121J	2 LS-2732 Channing way	Bkly 9817
Miller, Edward Robert	Berkeley	Mills, Palmer Richard	Bakersfield
3 Chem-3006 Grove st	Bkly 6943	<sup>1</sup> 1 LS-2627 Ridge rd	Bkly 2541
Miller, Edward Tracy	Porterville	*Mills, Reginald Louis	Oakland
<sup>2</sup> 2 Agr-2411 Durant av	Bkly 474	4 LS PreA-5425 Shattuck av, O	Pied 1997
Miller, Elizabeth	Alturas	Mills, Verni Victor	Ashland, Ore.
2 LS-2330 Russell st	Bkly 7121J	4 CE-2601 Durant av	Bkly 23
Miller, Elsie Anna	San Rafael	Milner, Marguerite Haultain	Los Angeles
<sup>1</sup> 1 LS-2630 Haste st	Bkly 7158W	2s Agr-2814 Piedmont av	Bkly 1958W
Miller, Francis Hobart	Berkeley	Mineah, Edwin Van Horn	Prosser, Wn.
3 LS PreL-1715 Spruce st	Bkly 6641W	4 Com-2520 Virginia st	Bkly 2608
Miller, George Randolph	Santa Monica	Mini, Romeo Adolph	Vallejo
2 LS PreL-2521 Channing way	Bkly 5881	1 Com-2500 College av	Bkly 5941
Miller, Gladys Evelyn	La Grande, Ore.	Mini, Severus Lawrence	Vallejo
<sup>1</sup> 1 LS-2521 Virginia st	Bkly 1841	2 LS PreM-2500 College av	Bkly 5941
Miller, Harold Dewey	Elk Grove	Minihan, John Francis	San Francisco
1 LS-2241 College av	Bkly 1189W	4 CE-4266 Twenty-fourth st, S F	Mn 6778
		Minter, Hugh Cromer	Bakersfield
		1 LS PreL-2425 LeConte av	Bkly 4334

- Mintzer, William San Francisco  
 '3 LS-1815 Highland pl Bkly 1682
- Mishkis, Benjamin Shmulevitz San Francisco  
 '1 Agr-1938 Home st
- Mitchell, Anthony Laurence Hollywood  
 8 LS PreL-2200 Piedmont av Bkly 6760
- Mitchell, George Garrison Los Angeles  
 2 LS PreL-1711 Euclid av Bkly 9806
- Mitchell, George Russell Santa Barbara  
 2 LS-2427 Channing way
- Mitchell, Homer Hardwick Oakland  
 '2 LS-678 Fairmount av, O Pied 2171W
- Mitchell, James Steele Oakland  
 2 OE-966 Twelfth st, O Lksd 804
- Mitchell, John Daniel Oakland  
 3 LS-531 Thirty-fifth st, O
- Mitchell, Myrtle Berkeley  
 1 LS-2215 Stuart st Bkly 2883W
- Mitchell, Vera Virginia Oakland  
 8 LS (H Hshld Sci)-5401 Belgrave pl, O Pied 8174J
- Mitnick, Peisi Berkeley  
 '1 LS PreM-2209 Shattuck av Bkly 7160W
- Mix, Virginia Elk Grove  
 1 LS-2428 Channing way Bkly 6408
- Mock, Archie Lothian Oakland  
 1 Mec-5105 Genoa st, O Pied 3861
- Mock, Marjorie Thornton Oakland  
 2 LS-5105 Genoa st, O Pied 3861
- Mohler, Marcus Los Angeles  
 1 LS-2428 College av Bkly 4748
- Mohr, Arthur William San Francisco  
 4 Chem (H)-2600 Bancroft way Bkly 6819
- Mohr, Paul San Francisco  
 1 LS-1449 Willard st, S F Mrkt 4351
- Molbeck, Gladys Exeter  
 1 LS-2315 Russell st Bkly 8808
- Molina, Ataulfo San Diego  
 2 LS PreL-2231 Dana st Bkly 6861J
- Molinari, David Anthony St. Helena  
 1 LS-2137 Berkeley way Bkly 112W
- Moll, Martha Letitia Hollywood  
 2 LS-2624 Virginia st Bkly 3868
- Mollé, Myrtle San Francisco  
 3 LS (H Music)-1736 Oxford st Bkly 7247
- Moller, William Oakland  
 '2 Mec-426 Twenty-ninth st, O Oakd 7839
- Monahan, Bessie Kathleen Livermore  
 2 LS-2834 Bowditch st
- Monahan, Flora Aileen San Francisco  
 3 LS (H Math)-2006 Fell st, S F Pac 5118
- Moncrief, Lester Indianapolis, Ind.  
 '1 Agr-2744 Telegraph av
- Money, Harvey Maxwell St. Helena  
 '1 Agr-1938 Virginia st Bkly 6094J
- Monges, Richard Gladwin Berkeley  
 3 LS-2914 Lorena st Bkly 8671
- Monlux, Claude Esra Butte City  
 4 Com (H Econ)-2419 Durant av Bkly 3862
- Monroe, Blythe Fidelis Palo Alto  
 3 Agr-926 Tulare st Bkly 8195W
- Monroe, Clinton Cecil Eureka  
 1 Com-5456 Shafter av, O Pied 6362
- Monroe, Edith Louise Chicago, Ill.  
 8 LS-1715 LeRoy av Bkly 2851
- Monroe, Margaret Elizabeth San Francisco  
 2 LS PreA-2700 Channing way Bkly 5876
- Montague, Edythe Delia Portland, Ore.  
 '3 LS-2400 Durant av Bkly 7954
- \*Monteagle, Kenneth San Francisco  
 4 LS-1815 Highland pl Bkly 1682
- Montell, Douglas Gould Santa Cruz  
 1 LS-2419 Durant av Bkly 3862
- Montgomery, Curtis Hall Oakland  
 1 Min-2231 Twenty-third av, O Frvl 1796W
- Montgomery, Eleanor Dorothy Oakland  
 2 LS-2231 Twenty-third av, O Frvl 1796W
- Montgomery, Grace Berkeley  
 1 LS-2 Edlington Court apts Bkly 6769
- Montgomery, Helen Rebecca Long Beach  
 2 LS-1715 LeRoy av Bkly 2851
- Montgomery, Margaret Mary San Francisco  
 4 LS-840 Shotwell st, S F Man 1973
- Montgomery, Melville Laurence Simi  
 2 LS PreM-2425 Bancroft way Bkly 1748
- Montgomery, Richard Gill Portland, Ore.  
 2 LS PreM-Hotel Claremont Bkly 9300
- Montgomery, Willis Robert Berkeley  
 4 LS-2620 Bancroft way Bkly 888
- Montijo, Alberto Octavio Berkeley  
 3 Mec-2734 Ellsworth st Bkly 5749W
- Montion, Rose San Francisco  
 '2 LS-1022 1/2 McAllister st, S F
- Moodey, Ruth St. Helena  
 3 LS-2305 Bancroft way Bkly 7461
- Moody, Elma Irene Laton  
 1 LS-2311 Bancroft way Bkly 7877
- Moody, Frank J. Santa Monica  
 1 Chem-2521 Channing way Bkly 5881
- Moody, John Kenneth Redding  
 2 LS PreL-1711 Euclid av Bkly 9306
- Moody, Joseph Ledlie San Francisco  
 '4 LS-2318 Telegraph av Bkly 5964
- Moody, Leo Roy Santa Monica  
 3 LS (H Engl)-2521 Channing way Bkly 5881
- Moody, Walter Loland Santa Monica  
 1 LS PreA-2521 Channing way Bkly 5881

Moon, Francis J.	North San Juan	Berkeley
2 CE-2407 Fulton st	Bkly 1112W	Bkly 7614
Mooney, Tyrrell William	Emeryville	Los Angeles
1 LS-1085 Forty-third st, O	Pied 6451	
Moore, Andrew Mackenzie	Berkeley	
1 Agr-1820 Arch st	Bkly 4424J	
Moore, Charles Alexander	Madera	
1 LS PreL-2701 Hearst av	Bkly 2421	
Moore, Douglas Edwin Cochran	Los Angeles	
14 LS PreL-2501 Ridge rd	Bkly 1885	
Moore, George William	Berkeley	
1 LS PreL-2001 Allston way	Bkly 6710	
Moore, Hollis Edith	Berkeley	
2 LS-1022 Peralta av	Bkly 5917	
Moore, Lucy Anne	Bethel, Mo.	
11 LS-2827 Bancroft way	Bkly 5816	
Moore, Margaret Elizabeth	Los Angeles	
4 LS-2710 Channing way	Bkly 9520	
Moore, Mary Eliza	Berkeley	
3 LS-2505 College av	Bkly 808	
Moore, Myrna Rebecca	Santa Rosa	
2 LS-1707 Euclid av	Bkly 4072	
Moore, Newell Linton	Los Angeles	
11 Agr-2511 Dwight way	Bkly 7079	
Moore, Norma Elizabeth	Lead, S.D.	
1 LS-2629 Haste st	Bkly 8287	
Moquin, Madeline Francesca	San Francisco	
12a LS-908 Fell st, S F	Park 462	
Moran, Edward Ramsay	San Francisco	
3 LS PreL-650 Bush st, S F	Sutr 8560	
Moreland, Helen Hall	Sacramento	
2 LS-2714 Ridge rd	Bkly 9098	
Moreland, William Hall	Sacramento	
2 LS-1815 Highland pl	Bkly 1682	
Moretti, Louis Ramon	Mill Valley	
1 Chem-2511 Durant av	Bkly 6081W	
Morgan, Alexander Edward	Berkeley	
3 LS-2627 Dwight way	Bkly 2566W	
Morgan, Charlotte Elizabeth	Berkeley	
2 LS-2401 Hilgard av		
Morgan, Everett Gillis	Berkeley	
18 LS-1545 LeRoy av	Bkly 9385	
Morgan, Frank Albert	Sonora	
1 Chem-2510 Haste st	Bkly 8563W	
Morgan, James Gladstone	San Bernardino	
1 Com-2228 Dana st	Bkly 1058	
Morgan, John Henry	Los Angeles	
3 LS-2400 Dana st	Bkly 2888	
Morgan, Raymond Ritchie	Sonora	
4 LS-2646 Dwight way	Bkly 4104	
Morgan, Walter Emmett	Alameda	
2 LS-802 Pacific av, A	Ala 8792W	
Morgan, William Irving	Sonora	
12 Com-1600 California st, S F		
	Papt 4554	
Moriarty, Josephine Ann	San Francisco	
3 LS (H Latin)-181 Parker av, S F		
	Pac 8388	
Morin, Ethel Hall	Los Angeles	
11 LS-2823 Bowditch st		
Morin, Frank		
2 Com-2625 Hearst av		
Morin, Karl Vincent		
15 CE-2823 Bowditch st		
Moriya, Toshiki	Los Angeles	
2 Chem-2308 Virginia st	Bkly 6441	
Moroney, Ethel Anna	San Francisco	
4 LS-2721 Haste st	Bkly 8800	
Morosoli, Eugene Baptist	Helena	
1 Com-2187 Berkeley way	Bkly 112W	
Morres, Nora Kathleen	Los Angeles	
1 LS-2417 LeConte av	Bkly 5650	
Morrill, Jane Marie	Berkeley	
3 LS-18 Alvarado rd	Bkly 5977	
Morris, Beulah Lucile	Chehalis, Wa.	
11 LS-2480 Bancroft way	Bkly 4011	
Morris, Ellis Elizabeth	Oakland	
18 LS-165 Santa Rosa av, O	Pied 975	
Morris, Fearing Henry	Oakland	
11 LS-165 Santa Rosa av, O	Pied 975	
Morris, Follett Fox	Napa	
1 Chem-2001 Hearst av		
Morris, Grace Leonore	San Francisco	
1 LS-1504 Masonic av, S F	Park 3941	
Morris, Gwendolyn Bishop	Berkeley	
2 LS-2229 Vine st	Bkly 1902W	
Morris, Richard Herman	Venice	
1 Mec-2628 Durant av	Bkly 4773	
Morrison, Alice Rebecca	Pasadena	
3 LS-1715 LeRoy av	Bkly 2351	
Morrison, Beulah May	Latam	
2 LS-2226a Chapel st	Bkly 879	
Morrison, Elizabeth Edwina	San Francisco	
11 LS-2420 College av	Bkly 8391	
Morrison, Glenn Kendall	Ellendale, N.D.	
5 Mec-2001 Durant av	Bkly 1622	
Morrison, Hadley Frederick	Crescent City	
1 LS-2507 Ellsworth st	Bkly 6216	
Morrison, Lewis Francis	San Francisco	
1 LS PreM-760 Thirty-fifth av, S F		
	Pac 301	
Morrison, Myrtle Jeanette	Sacramento	
1 LS-2400 Piedmont av	Bkly 5224	
Morrison, William Clarence	Perris	
14 Agr-2229 Chapel st	Bkly 1642	
Morrison, William Pease	Redlands	
3 Agr-2240 Telegraph av	Bkly 1349	
Morrissey, Edmund John	San Francisco	
11a LS PreM-1844 Laguna st, S F		
	Fmr 778	
Morrissey, Helen Marie	San Francisco	
2 LS-3046 San Jose av, S F		
	Randolph 752	
Morrissey, Marc Templeton	Orland	
2 LS PreL-2600 Durant av	Bkly 2593	
Morrow, Cecil Loveland	Wenatchee, Wa.	
11 Chem-2625 Hearst av	Bkly 7614	
Morse, Armena Louise	Berkeley	
4 LS PreA-1898 Seanie av	Bkly 2306W	

- Morse, Harold A. Oakland  
4 LS PreM-2735 Seminary av, O Elm 661
- Morse, Kenneth Meade Oakland  
2 Com-2735 Fifty-ninth av, O Elm 661
- Morse, Vera Frances Berkeley  
2 LS-2536 Benvenue av Bkly 6590W
- Morshead, John Stuart San Francisco  
1 Mec-1001 California st, S F Frkn 1000
- Morsman, Beatrice Jessie Oakland  
4 LS-841 Arlington av, O Pied 2960W
- Morton, Earle Hamilton Berkeley  
8 Com-2107 Dwight way Bkly 5976W
- Mosbacher, Cecil Berkeley  
1 LS-1731 Walnut st Bkly 5759J
- Mosbacher, Irene Berkeley  
4 LS (H Engl)-1731 Walnut st Bkly 5759J
- Mosbarger, Glen Andrew Fillmore  
1 Mec-2155 Center st
- Moses, Donna Los Angeles  
4 LS (H Econ)-2725 Channing way Bkly 7950
- Moses, Florence Emma Oakland  
1 LS-5749 Herman st, O
- Moses, John Campbell Los Angeles  
2 CE-1726 Euclid av Bkly 6706
- Moss, Joseph Mora, Jr. San Francisco  
2 Mec-2316A Hilgard av Bkly 5809
- Moss, William Bryan Tempe, Ariz.  
1 Com-Hotel Wilson, O
- Mossman, Edith Lena Nampa, Idaho  
4 LS-811 San Mateo rd Bkly 5431
- Mothorn, Lydon Ellsworth Healdsburg  
1 Com-2618 Durant av Bkly 8858
- Mott, Genevieve Glasier Petaluma  
4 LS (H Engl)-2711 Virginia st Bkly 4606J
- Mott, Gerville Oakland  
1 LS PreM-1726 Euclid av Bkly 6706
- Mott, Helen Matheson Petaluma  
1s LS-2725 Elmwood av Bkly 6189J
- Moulton, Doris Sabra Riverside  
2 LS-2500 Durant av Bkly 540W
- Moulton, Ferris S. Riverside  
4 Com-2647 Durant av Bkly 102
- Mount, Norman Hugh West Allis, Wis.  
1s Agr-Bushnell pl Bkly 841
- Movie, Chester Arthur Modesto  
2 LS PreM-2261 Shattuck av Bkly 7238J
- Mueller, Edwin Alfred El Cajon  
1s Com-2411 Durant av Bkly 474
- \*Mueller, Louis Henry San Francisco  
4 LS-1848 Church st, S F Msn 4045
- Muenter, Raymond Henry Berkeley  
2 Mec-2424 Channing way Bkly 734
- Muilenburg, Laurene Bernice Kalamazoo, Mich.  
1s LS-1649 Hayes st, S F
- Muir, Amelia Oakland  
3 LS-621 Merrimac st, O Lksd 866
- Muir, Andrew Lloyd Sacramento  
2 LS-2607 Hearst av Bkly 5913
- Muir, James Lyman Los Angeles  
1 Agr-2345 College av Bkly 62
- Muldoon, Madeline Ann Berkeley  
8 LS (H Engl)-2417 Blake st Bkly 6976
- Mull, Nathan Herbert Bakersfield  
1s Com-2425 LeConte av Bkly 4384
- Muller, Ida Berkeley  
3 LS (H Phys Ed)-2617 1/2 Ellsworth st
- \*Mulligan, Alice Cecilia San Francisco  
4 LS-2500 Fillmore st, S F West 4362
- Mumm, Robert Hull Sacramento  
2 Agr-2427 Channing way Bkly 7325
- Muncy, Grace Ethel Long Beach  
2 LS-2123 Kittridge st Bkly 8765
- Mundorf, Alice Elizabeth Sonora  
1 LS-2509 College av Bkly 7344J
- Mundt, Carlos Samson Alameda  
4 LS (H Astron)-2418 Eagle av, A
- Munro, Alexander H. San Francisco  
4 Mec-2605 Durant av Bkly 552
- Munro, Dorothy Victoria Berkeley  
2 LS-1410 Bonita av Bkly 4015
- Murchio, George Alexander Clayton  
2 LS PreL-489 Forty-eighth st, O
- Murdock, Margaret Elliot San Francisco  
3 LS-2714 Ridge rd Bkly 9093
- Murphy, Charles Ernest Los Angeles  
1s Com-2618 Durant av Bkly 1055W
- Murphy, Melvin D. Berkeley  
1s Mec-1911 Parker st Bkly 5595
- Murphy, Ethel Mary Modesto  
2 LS-2328 Bowditch st Bkly 6201J
- Murphy, Gladys Ethel Napa  
1 LS-2629 Haste st Bkly 3287
- Murphy, Helen Agatha Niles  
2 LS-451 Twenty-eighth st, O Oakd 6707
- Murphy, Lucille Alice Los Angeles  
4 LS (H Ger)-1818 Milvia st Bkly 7861
- Murray, Gladys Gertrude San Francisco  
2 LS-100 Dolores st, S F Park 5870
- Murray, J. R., Jr. Chico  
4 LS-2519 Ridge rd Bkly 1416
- Murray, William Wallace New York, N.Y.  
4 LS PreL-1629 Euclid av Bkly 2094W
- Myers, Hester Florence Berkeley  
1 Com-109 Hillcrest rd Bkly 8022W
- Mylar, Fred J. Laton  
1 Mec-2226 Chapel st Bkly 879
- Nachtrieb, Anna Day Berkeley  
1s LS-1407 LeRoy av Bkly 623
- \*Najarian, Garabed Hagop Fowler  
4 Agr-2410 Dana st
- Nakayama, Joseph Thomas Oakland  
1 LS PreM-551 Seventh st, O
- Nanscawen, Reginald Howard San Andrens  
4 LS PreA-2427 Durant av Bkly 4521J

- Nash, William Storey Alameda  
2 LS PreL-2738 Regent st Bkly 9359W
- Nason, Byron Garfield Oakland  
1 LS-1815 Pleasant Valley av, O
- Nathan, Adolph Neuberg San Rafael  
4 Agr-2248 Telegraph av Bkly 9011
- Nathan, Helen Kathryn Sacramento  
1 LS-2627 Hearst av Bkly 8229
- Nathanson, Anita Helen Santa Rosa  
1 LS-2328 Bowditch st Bkly 6201J
- Nathanson, Lester Edwin Santa Rosa  
2 Com-2417 LeConte av Bkly 5650
- Nave, John Tipton Spokane, Wn.  
1 LS-5326 Claremont av, O Pied 2915
- Nave, Sadie Mae Redding  
2 LS-1812 Grove st Bkly 5359J
- Naylor, Frank Linden Berkeley  
1 LS-2200 Durant av Bkly 140W
- Neeley, Hazel Pearl Lodi  
2 LS-2519 Hillgass av Bkly 477
- Neely, Marguerite Eugenie Fresno  
3 LS-2721 Haate st Bkly 8800
- Neff, Andrew McNally Altadena  
3a Chem-2227 Dwight way
- \*Neill, Caroline Bishop  
4 LS-2231 Carlton st Bkly 8438W
- Nelson, Alma Vacaville  
2 LS-25 Shasta st Bkly 7296W
- Nelson, Arthur Emil Denair  
4 Agr-University Farm, Davis
- \*Nelson, Clarence Eugene San Francisco  
4 LS and 1 Juris-2522 Virginia st Bkly 6616W
- Nelson, Cyril Barton Woodland  
2 Mec-2416 College av Bkly 8476J
- Nelson, Eunice Ensign Crescent, Utah  
12 LS-2320 Bancroft way Bkly 1358J
- Nelson, Leslie Scott Redlands  
3 Mec-2425 LeConte av Bkly 4334
- Nelson, Mabel Vacaville  
4 LS-25 Shasta st Bkly 7296W
- Nelson, Meta Dinuba  
3 LS-1700 Euclid av Bkly 1625
- Nelson, Percy Oakland  
1 Com-3880 Howe st, O Pied 2856W
- Nelson, Thomas Wills Bakersfield  
1 LS PreL-2200 Piedmont av Bkly 6760
- Ness, John Andreas San Francisco  
12 LS PreM-1000 Hyde st, S F Frkn 3700
- Ness, Laura Tuolumne  
2 LS-2629 Haste st Bkly 3287
- Neuman, Elizabeth Theodora Nome, Alaska  
2 LS-2237 Atherton st Bkly 4968
- Nevin, Cliffee Bernardine San Francisco  
3 LS (H Ger)-1736 Oxford st Bkly 7247
- Nevison, Beverly Malcolm Monterey  
3 LS-656 Sixtieth st, O
- Newell, Dorotea Alicia Berkeley  
1 LS-2008 Cedar st Bkly 7167W
- Newell, Sarah Sword New Castle, Pa.  
1 LS-2525 Durant av Bkly 8416
- Newlands, Welles Hollister San Francisco  
3 LS-2601 Durant av Bkly 23
- Newport, Mildred Hanford  
3 LS-2801 Ashby av Bkly 1863
- Newsom, Samuel Napa  
1 LS PreA-Cor. San Luis and Arlington avs Bkly 3415
- Newton, John Curtis Santa Barbara  
4 LS and 1 Juris-2200 Piedmont av Bkly 6760
- Neyman, Ruth Marie Los Gatos  
3 LS-2311 Bancroft way Bkly 7877
- Nicholas, Leta Oakland  
3 LS-1412 Ninth av, O
- Nichols, Camille Salinas  
1 LS-2307 Hearst av
- Nichols, Elmer Everett Oakland  
3 LS PreL-774 Thirteenth st, O Lksd 2221
- Nichols, Lucile Berkeley  
2 LS-2552 Haste st Bkly 2405
- Nichols, Luther Allen Pomona  
4 LS-2426 Virginia st Bkly 8472
- Nichols, Mary Griffith Pomona  
1 LS-2600 Etna st Bkly 7229
- Nichols, Mildred Edith Berkeley  
1 LS-2216 Channing way Bkly 5631
- Nichols, Ruth Pauline San Pedro  
4 LS (H Latin)-1637 Oxford st Bkly 2087J
- Nicholson, Knox Willard Berkeley  
3 Agr-University Farm, Davis
- Nicholson, Leona Browne San Francisco  
14 LS-2454 Prince st Bkly 1606W
- Nicholson, Ralph Walter Piedmont  
1 Mec-32 Loreta av, P Pied 304
- Nickel, Edward August Berkeley  
1 LS PreA-1935 Berryman st Bkly 2489J
- Nickerson, Randolph Rexford Berkeley  
2 LS-200 Tunnel rd Bkly 1619W
- Nielsen, Alvin John Kingsburg  
3 Agr-University Farm, Davis
- Nielsen, Anita Kjestine Gridler  
2 LS-1900 Bonita av Bkly 996W
- Nielsen, Bertha Christine Deweyetta Gridler  
2 LS-1900 Bonita av Bkly 996W
- Nielsen, Carlisle Dohn Vallejo  
1 LS PreL-2219 Ward st
- Nielsen, Helga Marie Hayward  
2 LS-2526 Hilgard av Bkly 1441
- Nielsen, Victor Waldemar Oakland  
1 Agr-820 Linden st, O Oakd 2097
- Nielson, Leland Harris Ferndale  
2 Chem-2614 Dwight way Bkly 1276
- Niemi, Mea Fort Bragg  
12 LS-2811 Bancroft way Bkly 214

- Nilon, William Thomas Nevada City  
 1 Mec-2601 Channing way Bkly 5904  
 Nilson, Walter Thure Oakland  
 3 LS PreL-1082 Linden st, O Lkd 1957  
 \*Nitsos, Nicholas Demetrius Corvallis, Ore.  
 4 Agr-2600 Hilgard av Bkly 5747  
 Nitta, Arata Oakland  
 1 Chem-605 Mira Vista av, O Oakd 9068  
 Noakes, Muriel Genevieve San Jose  
 1 LS-2327 Bancroft way Bkly 5816  
 Noble, Alice Carlana Berkeley  
 4 LS-2808 Ellaworth st Bkly 4462  
 Noble, Gladys Virginia San Diego  
 3 LS-2021½ Channing way  
 Nobmann, Clarence John Alameda  
 3 CE-1550 Everett st, A Ala 282  
 Noda, Goroichi Oakland  
 6 Mec-1108 Third av, O Mer 4203  
 Noell, Amy Daphne Grass Valley  
 8 LS-2429 Channing way Bkly 4648  
 Noia, Alfred John Concord  
 1 Mec-2605 Durant av Bkly 552  
 Norcross, Archie R Salinas  
 8 Chem-2001 Alston way Bkly 6710  
 Norcross, Homer Keim Lordsburg  
 2 Com-2500 Bancroft way Bkly 1848  
 Norman, Guido Frederick Eureka  
 1 LS PreM-2614 Hilgard av Bkly 8335  
 Norris, Harold Lockhart Mt. View  
 1 LS PreL-2617 Durant av Bkly 373  
 Norris, Lucius Grinnell Piedmont  
 8 Agr-University Farm, Davis  
 Norris, Ralph Elmer Oakland  
 1 Agr-2828 Richmond av, O Oakd 9054  
 Norworthy, Norman Oliver Heber  
 1 Com-2605 Durant av Bkly 552  
 Norton, Almer Jean Broderick  
 2 Com-2838 College av Bkly 1722  
 Norton, Cecil Conrad Los Angeles  
 1 Agr-2427 Durant av Bkly 281J  
 Norton, Charlotte May Long Beach  
 2 LS-2210 Atherton st Bkly 4698  
 Norton, Emyrn Winters  
 4 LS-2614 Telegraph av Bkly 6911W  
 Norton, Warren Dexter Berkeley  
 4 Agr-2215 Grant st Bkly 256  
 Noske, Helmut Ferdinand Ebling, Germany  
 1 LS PreA-Terminus Hotel Bkly 4558  
 Noyes, Donald Sanborn San Francisco  
 1 CE-55 Buena Vista ter, S F  
 Mrkt 2682  
 Nudd, Thomas Lindsay Dixon  
 4 Mec-2617 Durant av Bkly 878  
 Nuland, Lester Hall San Andreas  
 2 LS PreL-2600 Durant av Bkly 2598  
 Null, Louis Douglas San Jose  
 1 LS PreL-2418 College av Bkly 4440  
 Nunan, Clarita Grace San Francisco  
 1 LS-2714 Durant av Bkly 6694W  
 Nunan, Mary Constance Stockton  
 1 LS-2627 Hearst av Bkly 4009  
 Nunn, William Harrison San Francisco  
 1 LS PreL-2618 Durant av Bkly 8858  
 Nutting, Elizabeth May Berkeley  
 8 LS-1425 Walnut st Bkly 304  
 Nutting, Helen Janet Etna Mills  
 3 LS (H Econ)-2821 Bancroft way  
 Bkly 1765  
 Nye, Stephen Gundlach Medford, Ore.  
 1 Mec-2312½ Telegraph av Bkly 5985  
 Oaklev, John Walter Piedmont  
 3 CE-2 Mesa av, P Pied 5860  
 Oaks, John Clark Paso Robles  
 8 LS PreL-1734 Walnut st Bkly 6101J  
 O'Brien, George James Berkeley  
 2 LS-2251 College av Bkly 9107  
 O'Brien, Glen Thomas Oakland  
 1 Min-5142 Coronado av, O  
 O'Brien, Irene Marguerite Berkeley  
 1 LS-928 Fresno av Bkly 5875  
 O'Bryan, Gracia Mary San Francisco  
 13 LS-411 Pierce st, S F  
 Ochsner, Alice Ruth San Jose  
 8 LS-2510 Buena Vista way  
 Bkly 2890W  
 Ochsner, Grover Jerome Sacramento  
 2 LS PreL-2425 Durant av Bkly 1503J  
 Ochsner, Helma San Jose  
 2 LS-2510 Buena Vista way  
 Bkly 2890W  
 Ochsner, Olive Rose San Jose  
 2 LS-2510 Buena Vista way  
 Bkly 2890W  
 O'Connor, John James, Jr. San Francisco  
 2 LS PreM-78 Mercedes way, S F  
 Randolph 2747  
 Odenheimer, Milton Gates Los Angeles  
 2 Com-1730 La Loma av Bkly 8716  
 Oders, Lettitia Dixie Redding  
 2 LS-2413 Bancroft way Bkly 3498  
 O'Donnell, Neva Anderson San Francisco  
 1 LS-932 Divisadero st, S F West 2598  
 Oehlmann, Hilmer Alameda  
 4 Com (H Econ)-1603 Paru st, A  
 Ala 417  
 Offield, Helen June Berkeley  
 1 LS-624 Vincente av Bkly 6258J  
 Offield, Lloyd Herbert Berkeley  
 2 LS PreL-624 Vincente av Bkly 6253J  
 Ogden, Frank Macdonald Oakland  
 4 LS and 1 Juris-2386 Valdez st, O  
 Oakd 4788  
 Ogden, L. Ray Oakland  
 14 LS-4028 San Juan st, O Frvl 835J  
 Ogilvie, Samuel James Berkeley  
 4 Min-2521 Hearst av Bkly 708  
 O'Grady, James Dougherty Oakland  
 1 LS-456 Stow av, O Mer 2895  
 Ohanesian, John Clovis  
 1 LS PreM-2405 Fulton st Bkly 8885J

- O'Hara, Elwin Leo                      Oakley  
2 Agr-2614 Dwight way              Bkly 1276
- O'Hegarty, Joseph John              Hoboken, N.J.  
15s LS-115 Highland av, S F      Msn 2222
- Ohman, Ethel                          Eureka  
2 LS-2627 Hearst av                  Bkly 4009
- Okatoyo, George Minekichi              Palo Alto  
2 Com-2546 Regent st              Bkly 9038J
- Okell, Jack                              Suvaun  
1 LS-2522 Ridge rd                  Bkly 5950
- Okey, Oriel Madeline                  San Francisco  
1 LS-1245 Jones st, S F              Pspt 3082
- Okuno, Seijiro                          Oakland  
2 Chem-4273 Gilbert st, O          Pied 280
- Olanie, Mildred Helen                  Oakland  
1 LS-528 Chetwood st, O              Pied 7048J
- Olcese, Rosalinda Amelia                  Hornitos  
4 LS-2721 Haste st                  Bkly 8800
- Olender, Milton Howard                  San Francisco  
3 Com-2249 College av              Bkly 7436
- Oliver, Herman Graydon                  Sacramento  
4 Mcc-2501 Ridge rd                  Bkly 1835
- Oliver, Mary Ethel                      San Francisco  
1 LS-425 Anza st, S F              San Jacinto  
Oliver, William Dean                  Bkly 4440
- 2 Agr-2418 College av                  Oakland  
Olmsted, Gardner                      Mer 1891
- 1 Agr-1429 First av, O                  Petaluma  
Olmsted, Helen Matlack                  Bkly 9093
- 3 LS-2714 Ridge rd                  Fresno  
Olney, Bernice Lorraine                  Bkly 2351
- 3 LS-1715 LeRoy av                  San Francisco  
Olney, Herbert Elbert                  San Francisco  
2 LS PreL-3240 Twenty-third st, S F      Msn 4401
- Olsen, Elwood Richard                  San Francisco  
4 LS and 1 Med-55 Divisadero st, S F      Mrkt 1121
- Olsen, Oscar Clarence                  Fortuna  
2 Com-2316 Bowditch st              Bkly 6504
- Olson, Marion Orlando                  Patterson  
2 LS-2438 Durant av                  Spokane, Wn.  
2 LS-1630 LeRoy av                  Los Angeles
- O'Melveny, John                      Bkly 1682  
3 LS-1815 Highland pl              San Francisco
- O'Neil, Catherine Mary                  San Francisco  
1 LS-1643 Prince st                  San Francisco
- O'Neill, James Russell                  San Francisco  
11s LS-556 Sixth av, S F              Palermo
- Onyett, Floyd Erle                      Bkly 1722  
4 LS-2338 College av                  Medford, Ore.
- Ooiman, Nicholas Albert                  Bkly 5115  
1 LS PreA-2415 College av              San Jose
- \*Oppenheimer, Ralph Emanuel              Bkly 881  
4 Com-2121 Hearst av                  Oakland
- Orchison, Herbert J.                      Fvrl 977W  
1 Agr-1626 Twenty-seventh av, O          Riverside
- Ormand, Ben Hill                      Bkly 2608  
14 Agr-2520 Virginia st
- Orosco, Maxine Josephine                  Berkeley  
1 LS-1637 Fairview st                  Yuba City
- Orr, Ethel Marion                      Bkly 8134J  
4 LS (H Pub Health)-2437 Warring st      Oakland
- Orr, Marion                              Pied 5371W  
1s LS-245 John st, O                  Pomona
- Orr, Mildred                              Pomona  
4 LS-2413 Telegraph av
- Orynski, Wanda Isabella                  San Antonio, Tex.  
12 LS-2222 Atherton st              Bkly 720
- Osborn, John Franklin                  Turlock  
1 Agr-2822 College av                  Bkly 5110J
- Osborn, Lester Glen                      Long Beach  
3 LS-2123 Kittridge st                  Bkly 8765
- Osborne, Butler Joseph                  San Francisco  
3 Mcc-2605 Durant av                  Bkly 552
- Osborne, Dorothy                      Santa Barbara  
1 LS-2542 Durant av                  Bkly 3873
- Osborne, Robin Hart                  Santa Barbara  
14 LS PreL-2120 Kittridge st          Bkly 2090
- Osborne, Vivian Costroma                  Houston, Tex.  
2 LS-1805 Dwight way
- Osmena, Ambrosio Gandionco              Manila, P. I.  
21 CE-2248 Telegraph av              Bkly 9011
- Osselin, Elwain Levi                      Nevada City  
2 LS PreL-2321 Eighty-eighth av, O      San Francisco
- Oswald, Jeanette Emily                  San Francisco  
11 LS-817 Bellevue av, S F              Randolph 1845
- Otter, Blanche Florence                  Milwaukee, Wis.  
2 LS-1431 Arch st                      Bkly 7605J
- Ovenden, Philip Avery                  Alameda  
21 Mcc-2169 San Jose av, A
- Overshiner, William Humphreys              Santa Ana  
4 CE-2484 Shattuck av                  Bkly 5758
- Overton, Edward Charles                  Alhambra  
2 LS PreA-2616 Virginia st              Bkly 6716
- Overton, Frederick Stryker                  Alhambra  
5 CE-2616 Virginia st                  Bkly 6716
- Oviedo, George Francis                  San Francisco  
1 LS PreM-182 Appleton av, S F
- Oviedo, Louis Jerome                  San Francisco  
2 LS PreM-182 Appleton av, S F
- Owen, Bertha Marie                      Calexico  
1 LS-2401 Durant av                  Bkly 6681
- Owen, Edith Craig                      Hayward  
3 LS-Hayward                          Hayward 873
- Owen, Fred Brewster                      Anaheim  
2 Mcc-2424 S Atherton st
- Owen, Joseph Nash                      Berkeley  
4 LS and 1 Juris-2200 Piedmont av      Bkly 6760
- Owensby, Etta Amberszine                  Clovis  
3 LS-2032 Hearst av                  Bkly 6892
- Owsley, John Guy, Jr.                  Pasadena  
21 Com-Hotel Shattuck                  Bkly 7300
- Owsley, Yates                          Pasadena  
1 Com-2717 Hearst av                  Bkly 5770
- \*Ozolin, Ian                              San Francisco  
4 LS-3001 Dwight way



- Pace, Jack Reekes San Francisco  
 2 Agr-2248 Telegraph av Bkly 9011  
 Pace, Lutrelle Fidelia Oakland  
 \*2 LS-536 Twenty-third st, O Oakd 5542  
 Packard, Paul Stark Bakersfield  
 1 LS PreL-2425 LeConte av Bkly 4334  
 Packer, Donald Hardy Glendale  
 8 Com-2425 LeConte av Bkly 4334  
 Packer, Ella Colusa  
 2 LS-2804 Telegraph av Bkly 8428  
 Paden, William Guy Alameda  
 4 LS-1450 Fernside blvd, A Ala 8015  
 Paik, Earl Ku San Francisco  
 8 LS-859 Pacific bldg, S F  
 Paine, Leila Evelyn Berkeley  
 1 LS-2561 Harthe st Bkly 4758W  
 \*Pal, Nalini Mohan Calcutta, India  
 4 Com-2353 Prospect st  
 Palmer, Dorothy Honolulu, T. H.  
 1 LS-2725 Channing way Bkly 7950  
 Palmer, George Alameda  
 1 Com-2625 Hearst av Bkly 7614  
 Palmer, Grace Evelyn San Jose  
 8 LS-1736 Oxford st Bkly 7247  
 Palmer, Minnie Betteravia  
 2 LS-2434 Bowditch st Bkly 6384  
 Palmer, Mona Edith Vacaville  
 1 LS-1519 Henry st Bkly 8761  
 Palmer, Violet Agnes Tuolumne  
 4 LS (H Ger)-2505 College av Bkly 808  
 Paltenghi, Earl Louis Oakland  
 3 LS PreL-6439 Colby st, O  
 Pied 8652J  
 Pannell, Mary Elizabeth Escondido  
 1 LS-1733 Bancroft way  
 Pape, Glenn E. Berkeley  
 3 LS-2044 Center st Bkly 3680J  
 Parcel, Roscoe Abraham Corvallis, Ore.  
 4 LS and 1 Juris-2406 Dana st  
 Bkly 7718  
 Pardini, Julian Grass Valley  
 2 LS PreL-2546 Chilton way  
 Paret, Milnor Peck, Jr. Oakland  
 1 CE-348 Alcatraz av, O Pied 5168W  
 Park, Josephine Effa Berkeley  
 \*2 LS-3115 Claremont av Bkly 8406  
 Park, Marie Lydia Stockton  
 1 LS-2405 Prospect st Bkly 4420  
 Parke, Genevieve Hamilton Portland, Ore.  
 \*1 LS-2401 LeConte av Bkly 1279W  
 Parker, Katherine Mary San Francisco  
 4 LS (H Latin)-2500 Durant av  
 Bkly 9342J  
 Parker, Leon Burson San Francisco  
 4 LS (H Econ)-Hotel Shattuck  
 Bkly 7800  
 Parker, Reginald O. Stockton  
 1 LS PreM-2529 Hearst av Bkly 40  
 Parker, Warren Harvey Los Angeles  
 \*4 LS-2332 College av Bkly 6689  
 Parker, Webster Locke Eureka  
 4 Agr-3510 Magnolia st, O  
 Parks, Benjamin Stanley Los Angeles  
 2 LS PreL-2520 Virginia st Bkly 2608  
 Parks, Ernest Kempe Long Beach  
 1 Com-1515 La Loma av Bkly 3812  
 Parma, Carmelita Santa Barbara  
 1 LS PreL-Berkeley Inn Bkly 6370  
 Parmeter, Pansy Levina Duncan's Mills  
 1 LS-1934 Haast st  
 Parr, Lucile Meredith Berkeley  
 3 LS (H Engl)-2418 Stuart st  
 Bkly 3917W  
 Parr, Sterling Clark Long Beach  
 2 LS-1544 Spruce st Bkly 8819J  
 Parrish, Alan Roy Berkeley  
 \*1 LS-2836 Regent st Bkly 2210W  
 Parrish, George Berkeley  
 3 Agr-University Farm, Davis  
 Parry, Edgar Earle Berkeley  
 2 LS-2112 Grove st Bkly 8654W  
 Parslow, Charles Edward Santa Ana  
 2 Com-2614 Dwight way Bkly 1276  
 Parsons, Alfred Braley Hayward  
 6 Agr-University Farm, Davis  
 Partridge, Gail Elizabeth Los Angeles  
 8 LS-2417 LeConte av Bkly 5650  
 Partridge, Nelson Howard, Jr. Boston, Mass.  
 8 Agr-University Farm, Davis  
 Pascoe, Hubert Leonard Salt Lake City, Utah  
 1 Min-2618 Durant av Bkly 8858  
 Patchett, Docia Isabel Annapolis  
 8 LS-1609 Scenic av Bkly 8520J  
 Paterson, Lealie Neil Fresno  
 \*2 LS PreL-2217 Ellsworth st  
 Bkly 6822J  
 Pattes, Lila Madeline Santa Cruz  
 1 LS-2336A McKinley av  
 Patterson, Anita B. Bishop  
 4 LS-2013 Woolsey st Bkly 4262  
 Patterson, George Alex Oakland  
 8 Agr-1456 First av, O Mer 1883  
 Patterson, Gilbert Lansing Stockton  
 4 LS and \*1 Med-2845 College av  
 Bkly 62  
 Patton, Carlyle Gill Riverside  
 \*4 CE-2332 College av Bkly 6689  
 Patton, John Adam Boulder, Colo.  
 4 LS-2340 Piedmont av Bkly 3158  
 Patton, Perry Jasper Gonzales  
 4 LS-2407 Bowditch st Bkly 8208  
 Patton, Robert Douglas San Luis Obispo  
 \*2 Com-2333 Channing way  
 Paul, Irvn Los Angeles  
 8 LS-2118 Grove st  
 Paul, Katherine Salt Lake City, Utah  
 \*4 LS-1082 Broadway, S F Frkn 1977

- Paul, Laurence Mattor China  
 14 Mec-911 Jefferson st, O  
 Paul, Leslie Alameda  
 3 Mec-1802 San Antonio av, A Ala 1950  
 Paul, Max Julius Colton  
 1 OE-2624 Virginia st Bkly 3663  
 Paull, Sheldon Ridgeway, Wis.  
 22 Com-2418 College av Bkly 4440  
 Paulsen, Melvin James Sonora  
 14 Com-1501 Spruce st Bkly 7058W  
 Paulsmeier, Emma Otelia Alameda  
 1 LS-1530 Union st, A Ala 851  
 Paulton, William Chase Santa Barbara  
 1 LS PreL-2607 Hearst av Bkly 5913  
 \*Pavid, Leander Leo Berkeley  
 5 LS-2215 Ellsworth st Bkly 1468W  
 Pawson, Herbert Bonner San Francisco  
 1 Chem-2610 Durant av Bkly 7804  
 Paxton, Marshall William Santa Rosa  
 8 Com-2610 Durant av Bkly 7804  
 Pears, Marion Webber Bakersfield  
 3 LS-2420 College av Bkly 8391  
 Pearce, Carlyle Melville Oakland  
 3 LS PreM-1823 E Sixteenth st, O Mer 4283  
 Pearce, Forrest Merville Oakland  
 3 LS PreL-1823 E Sixteenth st, O Mer 4283  
 Pearce, Fred Owen Berkeley  
 1 LS PreA-2531 Channing way Bkly 7068W  
 Pearl, Felix L. San Francisco  
 2 LS PreM-241 Eleventh av, S F Pac 1186  
 Pearson, Ruth Anna Berkeley  
 2 LS-1605 Milvia st Bkly 8234J  
 Peck, Auguste Francis Oakland  
 12 Chem-268 Fifty-fourth st, O Pied 4606J  
 Peck, Marguerite Jeanette Martinez  
 1 LS-2828 Kelsey st Bkly 6265  
 Pedley, Louis Logan Pasadena  
 21 Com-2033 Delaware st Bkly 6619  
 Peet, Harry Eldridge Berkeley  
 8s LS-2609 Ellsworth st Bkly 4873W  
 Peirson, Gertrude Burnham Pasadena  
 2 Agr-2813 Piedmont av Bkly 7481  
 Pelikan, Karl San Francisco  
 1 LS PreM-2415 Bowditch st Bkly 3951  
 Pellissier, Frank Leon Whittier  
 3 Agr-2421 Virginia st Bkly 8249  
 Pender, Frances Swift Berkeley  
 21 LS-2216 Ellsworth st Bkly 9144J  
 Pender, Violet Evelyn Berkeley  
 1 LS-2216 Ellsworth st Bkly 9144J  
 Penfield, Edna Lydia Oakland  
 2 LS-Carmel apts, O Lkad 1365  
 Penland, Paul Weaver Oxnard  
 4 LS PreA-2617 Durant av Bkly 373  
 Penn, Lewis August Petaluma  
 2 Chem-2118 Bancroft way Bkly 6129
- Pennell, Helen Berkeley  
 2s LS-2639 Piedmont av Bkly 2318W  
 Pennev, Louis Hubbard Colville, Wn.  
 4 LS PreA-2617 Durant av Bkly 873  
 Penny, Donald DeWitt Los Gatos  
 4 Agr-2528 Ridge rd Bkly 8277  
 Pennycok, Russell Dick Vallejo  
 14 LS and 1 Juris-2521 Hearst av Bkly 708  
 Pentz, Fletcher Hancock Oakland  
 1 Com-2101 Telegraph av, O Lkad 1700  
 Peoples, Doris Kerman  
 1 LS PreL-2334 Bowditch st Bkly 1358W  
 Perv, Ernest Ransome Oakland  
 2 LS PreM-2521 Hearst av Bkly 708  
 Peri, Alberto Lima, Peru  
 13 Min-1608 Grove st Bkly 1991J  
 Perkins, Alberta Alice San Diego  
 3 LS (H Engl)-2021J Channing way Ione  
 Perkins, Erwin Fontaine Bkly 373  
 23 Mec-2617 Durant av Oakland  
 Perkins, George Clement Oakland  
 3 LS PreL-2200 Piedmont av Bkly 6760  
 Perkins, James Elliott Oakland  
 1 Com-3440 Harper Court, O Frvl 1020W  
 Perkins, Tallcut A. Oakland  
 23 LS-1717 Walnut st Bkly 5847  
 Perlmutter, Abraham Albert New York, N.Y.  
 2 LS-2228 Dana st Bkly 1053  
 Peron, Lena Blue Lake  
 3 LS (H French)-1526 Walnut st Bkly 7263W  
 Perry, Dorothy Hills Springfield, Mass.  
 3 LS-2710 Channing way Bkly 9520  
 Perry, Francis Underwood Santa Barbara  
 21 LS PreL-2628 Durant av Bkly 4772  
 Perry, Richard D. El Centro  
 2 Com-2426 Virginia st Bkly 3472  
 Persell, Edgar Clinton Berkeley  
 3 Mec-2315 Dwight way Bkly 4026  
 Persons, Martha Briggs Berkeley  
 3 LS-Channing apts Bkly 8933  
 Persons, Ruth Gilbert Berkeley  
 1 LS-Channing apts Bkly 8933  
 Persons, Stanley Mitchell Berkeley  
 1 Agr-Channing apts Bkly 8933  
 Petch, Myrtle Evelyn Berkeley  
 4 LS-2538 Ellsworth st Bkly 1174  
 Peteler, Charles Robert Pasadena  
 1 Agr-2218 Dana st Berkeley  
 Peter, Leora Berkeley  
 3 LS-2304 Telegraph av Bkly 3428  
 Peters, George Yates Berkeley  
 2 LS PreL-18 Hillside court Bkly 7437  
 Petersen, George Steele Tucson, Ariz.  
 2 Mec-2519 Ridge rd Bkly 1416  
 Peterson, Ejnar Carl Kingsburg  
 1 LS-2312 Durant av Bkly 1842

# Undergraduate Students

147

Peterson, Marcus Carl Suisun  
1 Min-2345 College av Bkly 68  
Peterson, Marian Powell Los Angeles  
1 LS-2400 Piedmont av Bkly 5224  
Peterson, Nellie Forsberg San Francisco  
1 LS-1268 Fifteenth av, S F Snt 1191  
Peterson, Ruth Turlock  
1 LS-2428 Channing way Bkly 6408  
Peterson, William Simon Anaconda, Mont.  
4 Mec-Treehaven apts Bkly 4655J  
Petsch, Carl Goll Santa Monica  
2 Chem-2604 Dana st Bkly 7421W  
Pfingst, Edward Porter Watsonville  
4 LS PreL-2717 Hearst av Bkly 5770  
Pfister, Louise Emma Orange Cove  
1 LS-1700 Euclid av Bkly 1625  
Pfitzer, Irma Claire Berkeley  
1 LS-2612 Russell st Bkly 2569J  
Pfund, Rose Maria Oakland  
4 LS (H French, Ger)-2904 Webster st,  
O Oakd 5833  
Pfund, Southall Rozelle Sacramento  
4 LS and 1 Juris-2625 Hearst av  
Bkly 7614  
Phelps, Alice Nevada City  
2 LS-2417 LeConte av Bkly 5650  
Phelps, Laurence William Los Angeles  
3 CE-2418 College av Bkly 4440  
Philbrook, Brayton J Santa Cruz  
3 Min-2380 Telegraph av Bkly 4429  
Phillips, Richard Thomas Seattle, Wn.  
1 Mec-2647 Durant av Bkly 102  
Phillips, Emmett, Jr. Sacramento  
4 LS and 1 Juris-2333 College av  
Bkly 1722  
Phillips, Ernest Jeame Pasadena  
1 Agr-2620 Bancroft way Bkly 888  
Phillips, Harriet Elizabeth Berkeley  
1 LS-1643 Euclid av Bkly 2094J  
Phillips, Josephine Berkeley  
4 LS-1643 Euclid av Bkly 2094J  
Phillips, Melville F San Francisco  
4 LS-Glengary apts Bkly 7667  
Phillips, Oscar Wesley Berkeley  
4 Agr-1643 Euclid av Bkly 2094J  
Phillips, Walter William Oakland  
3 Min-565 Bellevue av, O Lksd 1479  
Phinney, Jerry Dayton Sacramento  
2 LS-2607 Hearst av Bkly 5913  
Piecicrillo, Louis Mathieu San Francisco  
1 LS PreL-818A Green st, S F Frkn 3579  
Pickle, Earl William South Pasadena  
2 Com-2218 Dana st Bkly 3267  
Pieper, Walter Sanger  
1 OE-2634 Fulton st Bkly 8605  
Pierce, Dixwell Lloyd Davis  
2 LS PreL-2627 Ridge rd Bkly 2451  
Pierce, Thomas Moore Berkeley  
2 LS PreL-2112 Durant av Bkly 7751

Pierozynski, Casimir Stanislaus San Francisco  
1 CE-941 Vermont st, S F  
Pierson, Warren Lee Los Angeles  
4 LS (H Hist)-2717 Hearst av  
Bkly 5770  
Pilat, Irene Santa Barbara  
4 LS-1815 Walnut st Bkly 8092  
Pillsbury, Edwin Sprague Berkeley  
3 LS PreL-1547 Spruce st Bkly 2382  
Pillsbury, Walter Harrison Chico  
1 LS PreM-2638 Durant av Bkly 8361W  
Pillsbury, William Griffiths Chico  
3 LS PreL-2200 Piedmont av Bkly 6760  
Pinger, Allen Wainwright Boulder, Colo.  
12 Agr-2620 Bancroft way Bkly 888  
Pinger, Leola May Petaluma  
4 LS-2533 Durant av Bkly 665  
Pioda, Narcissa Salinas  
4 LS-2421 LeConte av Bkly 8062  
Pirkey, Frank Colusa  
1 Mec-2316 Bowditch st Bkly 6504  
Pischel, Dohrmann Kaspar San Francisco  
3 LS PreM (H Physiol)-2400 Bancroft  
way Bkly 78  
Pischel, Harold Dohrmann San Francisco  
2 LS-2400 Bancroft way Bkly 78  
Pischel, Sepha Dohrmann San Francisco  
14 LS-2728 Durant av Bkly 9531  
Piske, Bertha San Francisco  
4 LS-1363 Eighth av, S F Snt 8097  
Pitts, James Hodnett Berkeley  
2 LS-1746 Oxford st Bkly 3838W  
Platt, Helen Virginia Los Angeles  
4 LS-2710 Channing way Bkly 9520  
Playter, Helen Mumford Piedmont  
1 LS-312 Mountain av, P Pied 1049  
Ploeger, Louise Margaret San Francisco  
3 LS-2700 College av Bkly 1442J  
Plue, Vilas Leone Rainier, Ora.  
2 Com-2010 Telegraph av, O  
Plumb, Mary Alma Fairview, Kans.  
14 LS-2430 Bowditch st Bkly 396J  
Plummer, Harold Hathaway, Jr. Berkeley  
1 Mec-2636 Etna st Bkly 7455  
Poage, Perry Thomas Richmond  
3 LS PreA-148 Fifteenth st, R  
Rchd 469W  
Podolsky, Isaac Harbin, Manchuria  
1 Mec-General Delivery, S F  
Pogue, James William Center Exeter  
3 Agr-2646 Dwight way Bkly 4104  
Pohlmann, Salem Camillo Santa Rosa  
1 LS PreM-2717 Hearst av Bkly 5770  
Policoffsky, Mark M. Ekaterinoslav, Russia  
2 Chem-2022 Berkeley way  
Polley, Egbert Marion Oakland  
1 LS-185 Fifteenth st, O Oakd 6382  
Polos, John Charalampus Boston, Mass.  
4 Agr-2605 Durant av Bkly 552

Poladorfer, Agnes Ricker	Los Angeles	Powell, Tilton Somerville	Los Angeles
2 LS PreL-2723 Durant av	Bkly 9531	2 Com-2647 Durant av	Bkly 102
Pon, Samuel Gim	Santa Cruz	Power, Ellen Mary	Visalia
<sup>2</sup> 2 Mec-1242 Stockton st, S F	China 1080	1 LS-2732 Channing way	Bkly 9317
Pond, Edward Bates	San Francisco	Power, Lester Barnum	San Francisco
1 Com-2240 Telegraph av	Bkly 1249	2 LS PreL-1526 Masonic av, S F	Park 6023
Ponting, Mildred Spencer	Berkeley	Powers, Grace Sarah	Oakland
1 LS-2535 College av	Bkly 4919	2 LS-3032 Blossom st, O	Fvrl 236W
Poole, Edward Graham	Petaluma	Pratt, Eugene Harold	National City
1 LS PreL-2251 Telegraph av	Bkly 3471	2 LS-2601 Channing way	Bkly 5904
Poole, Leland Stanford	Oakland	Pratt, Geraldine	San Francisco
1 LS PreL-961 Eighteenth st, O		1 LS-2937 Scott st, S F	Fmr 4159
Pooler, Esther Laura	Benicia	Pratt, Katharine	Oakland
1 LS-2632 Hilgard av	Bkly 5507W	2 LS-6426 Benvenue av, O	Pied 4973W
Pope, Blanche Hazel	Lincoln, Nebr.	Pratt, Marie B.	Topeka, Kans.
2 LS-Claremont Hotel	Bkly 9800	3 LS-2327 Bancroft way	Bkly 5816
Pope, Marjorie Della	Merrill, Ore.	Pratt, Sarah Merritt	Honolulu, T. H.
1 LS-2506 College av	Bkly 4887	<sup>2</sup> 1 LS-2804 Benvenue av	Bkly 6786W
Popov, Dmitry	Los Angeles	Preble, Zahrah Ethel	Berkeley
1s Agr-1922 Oxford st	Bkly 2434J	<sup>2</sup> 3s LS-1534 Arch st	Bkly 2230
Popple, Arnold, Jr.	San Rafael	Prell, Phillip	Cloverdale
2 LS PreL-2619 Etna st	Bkly 2268	8 LS-Faculty Club	Bkly 2855
Popple, Clara	Oakland	Premo, Kenneth Foster	Porterville
2 Chem-2619 Etna st	Bkly 2268	8 LS PreL-2500 College av	Bkly 5941
Port, Edna Ruth	Los Angeles	Pressfield, Harry	Modesto
1 LS-1707 Euclid av	Bkly 4072	<sup>2</sup> 2s LS-2228 Atherton st	Bkly 6680
Porter, Frances Alice	Santa Clara	Pressley, Eva Smith	Berkeley
1 LS-2421 LeConte av	Bkly 3062	8 LS (H Hist)-1003 Mariposa av	Bkly 6057W
Porter, Marie	Topeka, Kans.	Pressley, Jackson Hard	Berkeley
4 LS-2723 Durant av	Bkly 9531	3 Mec-1003 Mariposa av	Bkly 6057W
Posey, Elise	Oakland	Prestel, Harold Gordon	Payette, Idaho
4 LS (H Pol Sci)-465 Vernon st, O	Oakd 7204	3 CE-2345 College av	Bkly 62
Posner, Jacob Joseph	San Francisco	Prestidge, Ralph	Dinuba
2 LS PreL-1429 Polk st, S F	Frkn 2374	2 LS PreL-2701 Hearst av	Bkly 2421
Postell, Phillip Smith	Hollywood	Preston, Frances Caroline	Alameda
<sup>1</sup> 1 Agr-2332 College av	Bkly 6689	1 LS-2235 Durant av	Bkly 7929
Potter, Alice	Oakland	Preston, Louisa Byrne	Portland, Ore.
1 LS-3864 Brighton av, O	Mer 2294	2 LS-Euclid apts	Bkly 9375J
Potter, Clarence Griffith	San Francisco	Preston, Pierce Rue	Manila, P. I.
1 Med-836 Clayton st, S F	Park 3715	<sup>2</sup> 1 Agr-2317 Haste st	Bkly 4662
Potter, Gladys Lamb	Redlands	Price, Chalmers G	Santa Cruz
1 LS-2228 Chapel st	Bkly 9078W	3 LS-2634 Bancroft way	Bkly 6744
Potter, Margaret Emma	San Francisco	Price, Louis Pirtle	Oakland
3 LS-836 Clayton st, S F	Park 3715	<sup>1</sup> 1 LS PreM-2021 Twenty-fourth av, O	Fvrl 1185J
Potter, Norman Woolsey	San Francisco	Price, Paul Willard	El Paso, Tex.
2 LS PreL-836 Clayton st, S F	Park 3715	1 Mec-2521 Channing way	Bkly 5831
Potts, William Kenneth	Nordhoff	Price, Robert Bruce	El Paso, Tex.
4 Mec-1730 La Loma av	Bkly 8716	<sup>1</sup> 4 Agr-2521 Channing way	Bkly 5631
Poulsen, Esther Ruth	Selma	Price, Thompson	Berkeley
<sup>2</sup> 1 LS-1610 Arch st	Bkly 5990W	4 Mec-1730 La Loma av	Bkly 8716
Poulsen, Harold Willard	Selma	Pride, Katherine Virginia	Los Angeles
1 Agr-2174 University av	Bkly 1087	1 LS-2721 Haste st	Bkly 8800
Powell, Cora Ethel	Riverside	Price, Lionel Henry	Oakland
2 LS-2229 Chapel st	Bkly 1642	1 LS PreA-894 Sixty-first st, O	Pied 7836J
Powell, Corinne Elise	Sacramento	Priest, Ann Burdette	Oakland
4 LS (H Hist)-2142 Ward st	Bkly 3634J	<sup>2</sup> 1 LS-1520 Harrison st, O	Oakd 9494
Powell, Herbert James	Redlands		
1 LS PreA-2531 Channing way			
	Bkly 7068W		

# Undergraduate Students

149

Prince, Eugene Mitchell	Tuolumne	Raemisch, Arthur Walter	San Francisco
4 LS and 1 Juris-2625 Hearst av	Bkly 7614	1 Mec-918 Devisadero st, S F	Fmr 2620
Prindiville, Mervyn Thomas	Watsonville	Ragatz, Edward Gray	Los Angeles
2s Com-2717 Hearst av	Bkly 5770	2 CE-2834 Carlton st	Bkly 2478W
Prizer, Eugene Lee	Escondido	Rahill, Marion Edith	Berkeley
13 Agr-2237 Bancroft way	Bkly 4145W	2 LS-1127 Spruce st	Bkly 3408
Proctor, Harriet Emeline	Oakland	Rahtjen, Hanna	Berkeley
4 LS-2026 Forty-first av, O	Fvrl 1529J	3 LS (H Ger)-2714 Durant av	Bkly 6694W
Proebsting, Edward Louis	Wallace, Idaho	Raigorodsky, Illia	Harbin, Manchuria
3 Agr-University Farm, Davis		1 Mec-2201 Ellsworth st	Bkly 6037W
Prosser, Elsie Vivian	Berkeley	Raikhel, Nison	San Francisco
2 LS-2806 Regent st		11 Min-2165 Center st	Bkly 7359W
Prothero, Verling Edward	Visalia	Raisner, Wilbur	Corning
3 LS (H Latin)-2682 Parker st		4 LS-2211 Ellsworth st	Bkly 5496W
Puckett, Bertram Pierre	Berkeley	Raley, Elizabeth Ogden	Phoenix, Ariz.
2 Com-2738 Forest av	Bkly 6773W	11 LS-1612 Allston way	
Pun, Ying Lam	Kwai Ping City, China	Ram, Vangala Siva	Bombay, India
3 Chem-1739 Carlton st	Bkly 5540	4 LS-2515 LeConte av	Bkly 6994
Purdy, Camille Avila	Fresno	Ramage, William Douglas	Eugene, Ore.
3 LS-2425 Franklin st, S F	Frkn 8097	8 Chem (H)-2600 Bancroft way	Bkly 6819
Purnell, Lee Julian	Berkeley	Ramazzina, Emma Elizabeth	Patterson
2 Mec-1600 Woolsey st	Bkly 8594	2 LS- 2826 Garber st	Bkly 3058
Pushie, Janet Ethel	Berkeley	Ramelli, Mattie	Ventura
3 LS-1636 Fairview st	Pied 6528	4 LS-2627 Hearst av	Bkly 3229
Quackenbush, Claude Fulton	San Diego	Ramsey, Alice Emily	Stanford University
3 Mec-2221 Union st		3 LS-2516 Virginia st	Bkly 8480
Quarles, Dorothy	Honolulu, T. H.	Ramsey, Robert James	Napa
1 LS-2328 Bowditch st	Bkly 6201J	2 Agr-Cloyne Court	Bkly 4710
Quick, Lester Irving	Berkeley	Randall, Leonor	Corning
11 Agr-2335 Haste st	Bkly 8518W	1 LS PreL-1760 Tacoma av	Bkly 3978J
Quin, Franklin Horton	San Diego	Randall, Rex Ray	Oakland
12 Min-727 Stockton st, S F	China 191	3s LS-1315 Seminary av, O	
Quinn, Archibald Giles	Richgrove	Randall, Ruth Marie	Highland
1 Agr-2717 Hearst av	Bkly 5770	3 LS-2417 LeConte av	Bkly 5650
Quinn, Hubert Blase	Corning	Randall, Winslow Haskell	Berkeley
11 LS-1640 Euclid av	Bkly 4748	1 LS-2705 Piedmont av	Bkly 2372
Quinn, Katharine Frances	Los Angeles	Randolph, Paul Phelps	Milton, Wis.
4 LS-2421 LeConte av	Bkly 3062	12 Com-5649 College av, O	Pied 7514
Quintero, Baldwin Peter James	James	Rankin, Bernice	Susanville
	Santa Barbara	2 LS-2505 College av	Bkly 808
11 LS PreL-2616 Parker st	Bkly 7186W	Ransohoff, Howard Joseph	San Francisco
Quinville, William James	Bodie	11 LS-Glengary apta	Bkly 7759
14 Mec-2634 Bancroft way	Bkly 6744	Ransom, Frank Combs	Portland, Ore.
Raab, Norman Cecil	Stockton	3 Com-2345 College av	Bkly 62
2 CE-2520 Virginia st		Ranton, Bess M	Pullman, Wn.
Rabinowitz, Bert Franklin	San Francisco	4 LS-2606 Bancroft way	Bkly 2617
4 LS and 1 Juris-2410 Bancroft way	Bkly 4448W	Rantz, Jack	San Francisco
Rabinowitz, Herbert	San Francisco	11s LS-2427 Durant av	Bkly 4521J
1 LS PreL-1714 Steiner st, S F	Fmr 4311	Raphael, James Clarence	Berkeley
Raburn, Effie Mae	Madera	2 LS PreM-3019 Harper st	Van Nuys
1 LS-2435 Haste st	Bkly 2279W	2 LS-310 Parnassus av, S F	
Radebaugh, Gertrude	San Francisco	Raspi, Winifred H.	San Mateo
1 LS-1225 O'Farrell st, S F	West 681	1 LS-2685 Hillegass av	Bkly 2491J
Radii, Jarolim William	San Francisco	Ratcliffe, Louise	Cheney, Wn.
2 LS PreL-1150 Hyde st, S F	Frkn 6996	2 LS-2710 Channing way	Bkly 9520
Radin, Helen	San Francisco	Rathbone, Augusta Payne	San Francisco
11 LS-2627 Hearst av	Bkly 4009	2 LS-2405 Prospect st	Bkly 4420

Rauhenstein, Eva May	Los Angeles	Reich, Henry Leopold	Manila, P. I.
2s Com-2033 Delaware st		4 Mec-2410 Fulton st	Bkly 5788W
Rautio, Karl	Berkeley	Reichling, Margaret Gene	Whitier
1 LS-1819 Tenth st	Bkly 4192W	3 LS-2705 Telegraph av	Bkly 6531J
Raven, Icie Gertrude	Los Banos	Reid, Hugh Houston	San Francisco
2 LS-1789 Euclid av	Bkly 493	12s LS-High Acres	Bkly 4923J
Rawlins, Aubrey Gatliff	Willows	Reid, Kenneth James	Oakland
21 LS-2040 Hearst av	Bkly 6651J	1 CE-5806 Dover st, O	
Rawlins, Thomas Elsworth	Willows	*Reid, Khalula Lea	Berkeley
21 Agr-2040 Hearst av	Bkly 6651J	4 Agr-1535 Henry st	
Ray, Charles Reginald, Jr.	Medford, Ore.	Reifel, George Frederick	Astoria, Ore.
2 Com-2701 Hearst av	Bkly 2421	23 Com-2001 Allston way	Bkly 6710
Ray, Charles William	Pasadena	Reimers, Ludwig	Stockton
3 LS-2223 Atherton st	Bkly 6680	1 Chem-2231 Dana st	Bkly 6361J
Ray, Irene	Oakland	Reinhart, Milton Joseph	Elko, Nev.
3 LS-272 Twenty-third st, O	Oakd 2123	4 LS-2400 Durant av	Bkly 7954
Raymond, Norma Evelyn	Sumner, Wn.	Reinhaus, Helen Bertha	Santa Ana
1 LS-905 Ventura st	Bkly 4831J	3 LS (H Ger)-1809 Euclid av	Bkly 1615
Ren, William Samuel	San Francisco	Reinke, Edward Alexander	San Diego
12 Chem-1928 Irving av, O		4 CE-2605 Durant av	Bkly 552
Read, Genevieve Harriet	Oakland	Reische, Chester Alvin	Meridian
4 LS-1619 Eleventh st, O	Oakd 8017	1 Chem-2445 Channing way	
Reading, Abraham Beach	Auburn	Reiter, Prosper, Jr.	San Francisco
3 LS-1564 LeRoy av	Bkly 5063	4 Com (H Eeon)-2601 Durant av	
Reed, Elizabeth Margaret	Santa Barbara		Bkly 23
3 LS (H Hist)-2328 Bowditch st		Reith, John L.	Woodland
	Bkly 6201J	3 LS PreL-2620 Bancroft way	Bkly 888
Reed, Florence Lillian	Los Angeles	Remick, Howard Thompson	Lodi
2s J.S-1630 LeRoy av	Bkly 5869	1 LS-2209 Union st	Bkly 8956
Reed, Freeman Albert	Hollywood	Remmer, Kathleen Hazel	Oakland
3 LS-1730 La Loma av	Bkly 8716	1 LS-365 Palm av, O	Oakd 3998
Reed, George William	San Bernardino	Renn, Rudolph Walter	San Francisco
1 CE-2628 Durant av	Bkly 4772	1 CE-137 Ripley st, S F	Man 7734
Reed, Gertrude Agnes	San Francisco	Renner, Samuel Joseph	Berkeley
12 LS-132 Twentieth av, S F	Pspt 4602	3 LS PreL-1511 Arch st	Bkly 1346
Reed, Harold Blackmer	San Diego	Rennie, William, Jr.	Presno
3 LS (H Eeon)-2625 Hearst av		2 Agr-2251 College av	Bkly 9107
	Bkly 7614	Renz, Carl Albert	Mill Valley
Reed, Helen Chase	Berkeley	4 Chem-2610 Durant av	Bkly 7804
3 LS-2330 Roosevelt av	Bkly 8602	Repath, Ruth Marie	Los Angeles
Reed, Helen Elizabeth	Zillah, Wn.	4 LS-1739 Euclid av	Bkly 493
1 LS-1225 Fulton st, S F		Requa, Lawrence Kendall	Piedmont
Reed, Lorde Stockton	San Francisco	2 Min-321 Mountain av, P	Pied 212
2s LS-1736 Stockton st, S F	Krny 2511	Reston, Constance Marie Louise	San Francisco
Reed, Marietta	Chico	1 LS-2311 Bancroft way	Bkly 214
21 LS-2627 Hearst av	Bkly 4009	Reston, Gladys Isabel	San Francisco
Reedv, Katherine Elizabeth	San Francisco	4 LS-2311 Bancroft way	Bkly 214
1 LS-568 Sycamore st, O		Rethers, Theodore Charles	San Francisco
Rees, Frances Happersett	San Francisco	2 LS PreM-2900 Scott st, S F	West 823
3 LS-43 W Cantonment, Presidio, S F	West 6174	Reuter, Charles	Los Angeles
	Ventura	2 Com-2149 Blake st	Bkly 7184J
Reese, Dorothy Julia		Rey, Britton	Belvedere
1 LS-2630 Bancroft way		1 Agr-2607 Hearst av	Bkly 5913
Reese, Killis Cheeo	Berkeley	Reynders, Anthony Westwood	Oakland
3 LS PreM-2010 Durant av	Bkly 3940	3 Chem-2218 Dana st	Bkly 3267
Reese, Marie	Los Angeles	Reynolds, Alene Margarette	Oakland
3 LS PreM-2510 Channing way	Bkly 5414J	1 LS-1569 Jackson st, O	Oakd 2231
Reeves, Joseph Mason, Jr.	San Francisco		
2 LS-2248 Telegraph av	Bkly 9011		

- Reynolds, Eva Oxford, England  
1s LS-2734 Forest av Bkly 3484J
- Reynolds, Fred H Los Angeles  
4 Agr-1730 La Loma av Bkly 8716
- Reynolds, Joycelyn Berkeley  
3s LS-1942 El Dorado av Bkly 7458
- Reynolds, Ralph Arthur Polson, Mont.  
2 LS PreM-2684 Bancroft way Bkly 6744
- Reynolds, Ruth Eva Berkeley  
2 LS-2168 Dwight way Bkly 4468W
- Reynolds, T. Eric Kent, Wn.  
2 LS PreM-2600 Durant av Bkly 2593
- Rhein, Charles Elroy Alameda  
4 Chem-5184 Miles av, O Pied 2890
- Rhein, Violet Florence Santa Cruz  
1 LS-2435 Hillgard av Bkly 6406
- Rhine, Italia Bishop  
2 LS-2645 Benvenue av Bkly 6291J
- Rhodehamel, Florence May Oakland  
4 LS (H Latin)-1548 Eighteenth av, O
- Rice, Ralph Reeves San Gabriel  
14 LS and 1 Juris-2427 Dana st Bkly 2914W
- Rich, Lester Jacob San Bernardino  
8 Mec-2628 Durant av Bkly 4772
- Richards, Celia San Jose  
1 LS-1715 Channing way Bkly 7382J
- Richards, Edwin Hugo Pomona  
1 Com-2426 Virginia st Bkly 3472
- Richards, Esther English Alcatraz Island  
3s LS-2429 Channing way Bkly 4648
- Richards, John Almond Treadwell, Alaska  
2 Min-2510 Channing way Bkly 5414J
- Richards, Robert Samuel Oroville  
3 CE-2228 Dana st Bkly 1058
- Richards, Thomas Gano Los Angeles  
1 Com-2649 Durant av Bkly 102
- Richardson, Darrel Harden Hollywood  
8 Agr-University Farm, Davis
- Richardson, Dorothy Berkeley  
1 LS-2033 Channing way Bkly 3956W
- Richardson, Fred R Berkeley  
3 Com-2326 Parker st Bkly 3688
- Richardson, James Kelsey Melbourne, Australia  
3 CE-2218 Dana st Bkly 3267
- Richardson, Jane Charlotte Los Angeles  
1s LS-2650 Ridge rd Bkly 9098
- Richter, Milton Victor San Mateo  
2 Agr-718 Fourth av, San Mateo S.M. 620
- Rickey, Alice Brinley Berkeley  
1 LS-5 Encina pl Bkly 3974
- Ridenhour, Irene Maude Ceres  
1 LS-1528 Scenic av
- Riedy, Dorothy Cornelia San Francisco  
2 LS-914 Inyo av
- Riemenschneider, Esther Lida Modesto  
12 LS-2236 Durant av
- Riemenschneider, Herbert Weston Modesto  
1 Mec-2701 Hearst av Bkly 2421
- Riemenschneider, Maebelle Mae Modesto  
1s LS-2236 Durant av Bkly 7965
- Ries, John Benjamin Laton  
2 LS-2226 Chapel st Bkly 879
- Riess, Iola Gladys San Francisco  
4 LS (H Engl)-2435 Hilgard av Bkly 6406
- Riley, Joe Edward Bishop  
1s Mec-2231 Carlton st Bkly 8438W
- Rilliet, Adele Oakland  
2 LS-179 Kempton av, O Oakd 6808
- Rinehart, Raybourne Wycoff Oakland  
1 LS PreL-1432 Fifth av, O Mer 4389
- Ring, Erla Andreassen Ferndale  
1 LS-2417 LeConte av Bkly 5650
- Ring, Ronald Lowe Ferndale  
3 LS PreM-2418 College av Bkly 4440
- Risher, Martha V. Hollywood  
1s LS-2525 Durant av Bkly 1969
- Ristine, Elizabeth Wilson San Francisco  
1s LS-12 Geary st, S F Sutr 623
- Ritchey, Dixie Los Angeles  
2 LS-2417 LeConte av Bkly 5650
- Ritter, Paul John Los Angeles  
3 LS-Pacific Unitarian School Bkly 1141
- Rivers, Harold Rentsch San Francisco  
3 Min-2501 Ridge rd Bkly 1335
- Rivers, Nadine Rose St. Helena  
1 LS-2415 Haste st
- Rives, Fern La Vaun Salt Lake City, Utah  
1 LS-2627 Channing way Bkly 6928W
- Roach, Elizabeth Dihel Berkeley  
3s LS-2118 Bancroft way Bkly 6129
- Robb, Agnes Roddy Oakland  
3 LS-5582 Lawton av, O Pied 5745
- Robbins, Charles Wiles Corvallis, Ore.  
3 Mec-2880 Benvenue av Bkly 3026
- Robert, Petrie Ludger Imperial  
1 LS PreM-2152 Addison st
- Roberts, Bertha Camille Santa Barbara  
3 LS-1619A Scenic av Bkly 1700J
- Roberts, Elmore William San Diego  
3 LS PreL-2333 College av Bkly 1722
- Roberts, Harold Andrew Pomona  
1s LS-2330 College av Bkly 5098
- Roberts, Jessie Ingram St. Joseph, Mo.  
2 LS-2732 Channing way Bkly 9817
- Roberts, Kathryn S. Berkeley  
12 LS-2416 Channing way Bkly 3007J
- Roberts, Mary Elizabeth Richmond, Ind.  
4 LS-2736 Haste st Bkly 8680
- Roberts, Milton Louis San Diego  
2 Com-2383 College av Bkly 1722
- Robertson, Alexander John Vancouver, B.C.  
14 Min-2528 Ridge rd Bkly 3277
- Robertson, Charles Albert Oakland  
1s Mec-704 Brush st, O Oakd 5788
- Robertson, Edith Gwynne El Paso, Tex.  
1 LS-1736 Oxford st Bkly 7247

- Robertson, Jane Winifred  
Adelaide, So. Australia  
12s LS-2619 Regent st Bkly 307  
Robie, Gertrude Edwina East Auburn  
1 LS-2721 Haste st Bkly 8800  
Robinson, Archbold Hamline Riverside  
3 LS (H Math)-2001 Allston way  
Bkly 6710  
Robinson, James Bestor Oakland  
3 LS PreL-552 Montclair av, O  
Mer 3696  
Robinson, Ronald Squire Berkeley  
3 LS-2504 Ashby av Bkly 6378W  
Robinson, Ruth Berkeley  
1 LS-2905 Regent st Bkly 2286W  
Rocca, Helen Mitchell Middletown  
2 LS-2506 College av Bkly 4387  
Rockwell, Abilene Jane San Francisco  
2 LS-501 Franklin st, S F Mrkt 4374  
Rockwell, Donald Shumway Ocean Beach  
23 LS-Hotel Morse Bkly 8800  
Roddy, Marguerite Gertrude San Francisco  
2 LS-2112 Howard st, S F Park 2062  
Rodehaver, Myrtle Ellen Berkeley  
1 LS-2411 Regal rd Bkly 4994  
Rodgers, E. Frances Los Angeles  
1 LS-2229 Chapel st Bkly 1642  
Rodgers, Harold Marion Watsonville  
1 Agr-2436 Durant av Bkly 6780J  
Rodey, Estha Marie Los Angeles  
4 Com-1736 Oxford st Bkly 7247  
Rodolph, Rollin Pratt Oakland  
3 LS-1835 Twenty-eighth av, O  
Frwl 632  
Roeth, Charles F. B. Oakland  
4 LS PreA (H)-4110 Howe st, O  
Pied 1989J  
Roeth, Helen Mary Oakland  
3 LS PreA-4110 Howe st, O Pied 1989J  
Rogers, Constance Santa Monica  
2 LS-2725 Channing way Bkly 7950  
Rogers, Elba Williams Oakland  
1 LS-4028 Broadway, O Pied 2683J  
Rogers, Emery Herman Santa Monica  
4 LS-2410 Dana st Bkly 2317J  
Rogers, Enid Aldwyth Hemet  
1 LS-2328 Bowditch st Bkly 6201J  
Rogers, Fred Joseph Oakland  
1s Juris-648 E Fourteenth st, O  
Mer 5468  
Rogers, Marian Oakland  
1 LS-814 Linden st, O Oakd 4726  
Rogers, Ruth Jeannette Ventura  
1 LS-2401 Durant av Bkly 6681  
Rohlfing, Romaine R. Placerville  
4 LS-2330 College av Bkly 5098  
Rohr, Carl S. Watsonville  
2 Mec-2611 Durant av Bkly 4525W  
Rohrbacher, George Henri Stockton  
3 LS PreM-2316 Bowditch st Bkly 6504  
Rohrer, John Paul  
1 Agr-2519 Ridge rd  
Rohwer, Claude Dixon  
3 LS PreL-2200 Piedmont av Bkly 6760  
Rohwer, Ray Dixon  
3 Chem-1730 La Loma av Bkly 8716  
Rolph, Carl J., Jr. Berkeley  
3 Agr-University Farm, Davis  
Rolph, Margaret San Francisco  
2 LS-2709 Channing way Bkly 8528  
Ronaldson, Anna Argo Oakland  
3 LS-944 Sixty-first st, O Pied 1423W  
\*Root, Dan Edwin Redding  
5 LS and 2 Juris-2425 LeConte av  
Bkly 4334  
Root, Homer Boice Sacramento  
3 LS PreM-2251 College av Bkly 9107  
Roper, Irma Arena Point Arena  
2 LS-2609 Milvia st Bkly 7138J  
Roscoe, Beatrice Leslie Morenci, Ariz.  
1 LS-2600 Warring av Bkly 6407W  
Rosecrans, Rita Iolani Paia Maui, T.H.  
1 LS-2327 Bancroft way Bkly 5816  
Rosel, Mabel Catherine Berkeley  
1s LS-2233 Ellsworth st Bkly 295W  
Rosenbaum, Lewis Samuel San Francisco  
4 LS (H Bot)-2318 Telegraph av  
Bkly 5964  
Rosenbaum, Ralph Samuel San Francisco  
4 LS PreA-2318 Telegraph av Bkly 5964  
Rosenberg, Charles Leonard Oakland  
1 Com-598 Twenty-third st, O  
Oakd 4294  
Rosenberg, Helen Emma Alameda  
4 LS (H Phys Ed)-433 Perkins st, O  
Oakd 8610  
Rosenberg, Teo LeConte Healdsburg  
3 Mec-2628 Durant av Bkly 4772  
Rosenberg, Walter San Francisco  
2 Agr-2442 Clay st, S F Fmr 768  
Rosenblatt, Martin Stern San Francisco  
3 LS PreL-3201 Clay st, S F West 5968  
Rosenblatt, Samson Heller San Francisco  
4 Mec-Glengary apts Bkly 7667  
Rosenfeld, Julius Shanghai, China  
12 LS PreL-Granada Hotel, S F  
Frkn 422  
Rosenthal, Edel Lucile San Francisco  
2 LS-2516 LeConte av Bkly 8235J  
Rosenthal, Emanuel Samuel San Francisco  
3 LS-1911 Lyon st, S F Fmr 2497  
Rosenthal, Sophie Oakland  
1s LS-1011 Lassen st Bkly 6788J  
Ross, Albert Frederick, Jr. Redding  
4 LS and 1 Juris-2528 Dwight way  
Bkly 1027J  
Ross, Edgar Benson Santa Cruz  
2 Mec-5326 Claremont av, O Pied 2915  
Ross, Edna Hazel Bakersfield  
2 LS-2684 College av Bkly 1497



Ross, Helen Marie	Berkeley	Runkel, Christian Henry	Berkeley
3 LS-1418 Milvia st		<sup>14</sup> LS-2531 Ellsworth st	Bkly 3316J
*Ross, Mary Letitia	San Diego	Runkel, Martha Alice	Berkeley
4 LS-2323 College av	Bkly 3590W	<sup>21</sup> LS-2422 Ashby av	Bkly 7252J
Ross, Willey	San Bernardino	Ruppel, Walter	San Francisco
4 LS-1708 Scenic av	Bkly 6064J	4 CE-1429 Eleventh av, S F	Snat 891
Rossow, Freda Martha	Berkeley	Rush, Orlof E.	Visalia
1 LS-2228A McKinley av	Bkly 784	2 Mcc-2226 Chapel st	Bkly 879
Roth, Adele Magdalena	Pasadena	Rushmore, Mariel Morris	Ware, Mass.
1a LS-Cloyne Court	Bkly 4710	4 LS-2538 Dwight way	Bkly 1645W
Rothman, Theodore	Los Angeles	Russell, Alice Elizabeth	Dillon, Mont.
3 Chem (H)-2632 Channing way		3 LS-2518 Dana st	Bkly 8750J
	Bkly 731W	Russell, Catherine Barclay	Berkeley
Bothwell, Frances Maude	Pasadena	<sup>21</sup> LS-Hotel Shattuck	Bkly 7300
2 LS-2614A Hilgard av	Bkly 3385	Russell, Harry Freeman	Oakland
Bothwell, Thelma	Honolulu, T.H.	2 Agr-381 Alcatraz av, O	Pied 4146J
2 LS-2400 Piedmont av	Bkly 5224	Russell, Mae Eleese	Tacoma, Wn.
Rottenberg, Isaac Berkovich	Harbin, Manchuria	2 LS-1739 Euclid av	Bkly 493
2 Min-1612 Walnut st		Russell, Richard Joel	Hayward
Rouleau, Alice Georgiana	Oakland	2 Agr-2330 College av	Bkly 5098
<sup>21</sup> LS-7 Moss av, O	Pied 8054	Russell, Sydney King	Los Angeles
Rouleau, Flora Lucie	Oakland	2 LS-Hotel Shattuck	Bkly 7800
3 LS-7 Moss av, O	Pied 8054	Russell, Virgil Yates	Wichita, Kans.
Roumiguierre, Henriette	San Francisco	<sup>21</sup> LS-2226 Chapel st	Bkly 879
<sup>21</sup> LS-2218 Dwight way	Bkly 5345W	Russell, William Alexander	San Jose
Rout, John Winiford	Kansas City, Kans.	4 LS-2426 Virginia st	Bkly 3472
1 LS-1008 Thirty-sixth st, O	Pied 5537W	Rutherford, Elizabeth Jane	Truckee
Row, Avatapalli Narayana	Maunilpatam, India	1 LS-6524 Dana st, O	Pied 8029W
<sup>11</sup> LS-2026 Center st	Bkly 2503J	Rutherford, James Tyrrell	Truckee
Rowe, Andrew Carl	Edgewood	1 LS PreL-6524 Dana st, O	Pied 3029W
1 Com-2522 Ridge rd	Bkly 5950	Rutledge, Eric Andrew	Berkeley
Royar, Murrey Levering	Los Angeles	1s Mcc-2236 Haste st	Bkly 5750J
4 LS-2521 Channing way	Bkly 5831	Ryan, Alice Josephine	Alameda
Rucker, William Wheeler	Oakland	1 LS-2059 San Antonio av, A	Ala 8295
<sup>24</sup> LS PreL-730 Oak st, O	Oakd 4727	Ryan, Robert Laurence	Santa Barbara
Ruddick, Jay Leon	Berkeley	4 CE-2620 Bancroft way	Bkly 888
4 LS-2635 Regent st	Bkly 6387J	Ryder, Gerald Allen	Los Angeles
Rudorf, Lucia Wanda	Los Angeles	<sup>21</sup> Mcc-2309 Bowditch st	Bkly 4690
<sup>21</sup> LS-2627 Hearst av	Bkly 3229	Sabin, Sarah Davis	Portland, Ore.
Rudovic, Berna	Los Angeles	4 LS-2732 Channing way	Bkly 9317
<sup>12</sup> LS-1511 Walnut st		Sabin, Sylvia Cooper	Oakland
Ruedrick, Paul	Berkeley	1 LS PreM-837 Thirty-third av, O	Fvrl 337W
<sup>12</sup> Mcc-1240 Milvia st		Sackville, Effie June	Long Beach
Ruegg, Hannah Elizabeth	San Francisco	1s LS-2400 Durant av	Bkly 7954
<sup>21</sup> LS-2901 Channing way	Bkly 1773	Sacoder, Joseph	San Francisco
Ruegg, Peter	Santa Clara	<sup>21</sup> Chem-2516 Bancroft way	
4 LS-2436 Channing way	Bkly 8286W	Sagen, Bertha	Princeton
Ruffo, Henry Augusto	Los Angeles	2 LS-2327 Bancroft way	Bkly 5816
4 Agr-2251 College av	Bkly 9107	Sagen, George Oliver	Princeton
Ruggles, Annette Emilie	San Francisco	4 LS (H Math)-2419 Durant av	Bkly 3362
1 LS-2782 Channing way	Bkly 9317	Sahgal, Gobind Ram	Berkeley
Ruggles, Elizabeth Mary	San Francisco	<sup>21s</sup> Mcc-2217 Fulton st	
4 LS-2782 Channing way	Bkly 9317	Sahlberg, Manley William	Turlock
Rugh, Charles V.	Los Gatos	5 CE-2318 Telegraph av	Bkly 5964
2 LS-2223 Atherton st	Bkly 6680	Said, Ethel Martha	Bakersfield
Rule, Reginald Bryant	Berkeley	<sup>24</sup> LS-2525 Dwight way	Bkly 7693W
3 Chem (H)-2134 Parker st	Bkly 3182W	Saile, Gladys A.	Reedley
		3 LS-1740 Walnut st	Bkly 7392

- St. John, Beatrice May Berkeley  
 \*1 LS PreM-3136 College av Pied 4607W  
 Sala, David Germain Stockton  
 \*1 Med-2500 Bancroft way Bkly 1848  
 Sala, Erminie Ursula Stockton  
 4 LS-2713 Haste st Bkly 2148  
 Sallady, Roy E. Los Angeles  
 \*3 CE-2521 Channing way  
 Salmina, Elmer James St. Helena  
 3 Agr-2427 Channing way Bkly 7325  
 Salmons, Mildred Alexander San Diego  
 1 LS-2725 Channing way Bkly 7950  
 Salsbury, Adele Louise San Francisco  
 4 LS-159 Seventeenth av, S F Pac 2958  
 Salsbury, Thomas Ralph Ashland, Ore.  
 2 Min-2510 Channing way Bkly 5414J  
 Salter, Donald Wolfrum McMinnville, Ore.  
 4 Min-2276 Shattuck av Bkly 8300  
 Sammi, John Cogswell Berkeley  
 \*3 LS-2410 Dana st Bkly 7836J  
 Sampson, John Jacob San Francisco  
 1 Med-2211 Fulton st Bkly 6045W  
 Samson, Alfredo José Manila, P. I.  
 \*1 Mec-5820 Ocean View dr, O  
 Pied 5046W  
 Samuels, Sidney Harold San Francisco  
 2 Mec-2006 Grove st  
 Samuelson, Florence Caroline Paso Robles  
 2 LS-839 Mendocino av Bkly 6934W  
 Sanborn, Earle Abram San Jacinto  
 2 CE-2418 College av Bkly 4440  
 Sanborne, Annie Ruth Richmond  
 3 LS-830 Pennsylvania av, R  
 Rchd 999  
 Sanderson, Alice Hobbs Berkeley  
 2 LS-2415 Regal rd Bkly 7589  
 Sanderson, George Henry Stockton  
 2 LS PreM-2529 Hearst av Bkly 40  
 Sanderson, Gorham Dehy Berkeley  
 1 LS-1441 Bonita av Bkly 5016W  
 Sanderson, Lemuel Dalton Berkeley  
 8 LS PreL-1441 Bonita av Bkly 5016W  
 Sanderson, Marian Taber Berkeley  
 3 LS-2415 Regal rd Bkly 7589  
 Sanderson, Mary Jane Berkeley  
 4 LS-1441 Bonita av Bkly 5016W  
 Sanderson, Virginia Somes Berkeley  
 3 LS (H Engl)-2943 Russell st  
 Bkly 1568J  
 Sandner, Hubert Berkeley  
 3 LS-2022 Francisco st Bkly 1804  
 Sandner, Irma Russell Berkeley  
 \*3 LS-2441 Haste st Bkly 7904W  
 Sandner, Victor Richard Berkeley  
 \*6 CE-2441 Haste st Bkly 7904W  
 Sanford, Burnett Palo Alto  
 \*4 Agr-2511 Durant av Bkly 6081W  
 Sanford, Clara Colette Alhambra  
 2 LS-2435 Hilgard av Bkly 6406  
 Sanford, Dorothy Portland, Ore.  
 2 LS-2714 Ridge rd Bkly 9093  
 Sanford, Madeline Alameda  
 2 LS-2709 Channing way Bkly 8528  
 Sangmaster, Norman Irving Livermore  
 2 Com-2338 College av Bkly 1722  
 Saph, Augustus Victor Berkeley  
 4 CE-2330 Durant av Bkly 4085  
 Sappington, Emmett Earl Modesto  
 2 Com-2209 Union st Bkly 8956  
 Sappington, Lewis Byron Boise, Idaho  
 \*3 LS-2209 Union st Bkly 8956  
 Sargeant, Eric Harold Riverside  
 4 LS PreM-2417 Bancroft way  
 Bkly 6504  
 Sargent, Harry Riverside  
 \*4 Agr-2211 Union st Bkly 3233W  
 Sattui, Attilio Cuesta Cajamarca, Peru  
 \*1 Agr-2839 Twenty-third st, S F  
 Man 5574  
 Saul, Pearly Dorothy San Francisco  
 \*1 LS-4651 California st, S F Pac 4608  
 \*Sawyer, Frank Laurence San Francisco  
 5 LS PreA-2411 Virginia st Bkly 7205W  
 Sawyer, Henry Albert Riverside  
 5 LS and 1 Med-83 Shasta st  
 Bkly 8550W  
 Sayre, Harold Weston Pasadena  
 1 LS PreA-2601 Durant av Bkly 23  
 Sayre, Raymond W. Alameda  
 2 LS-1244 St. Charles st, A Ala 1441  
 Scammell, E. Louise Oakland  
 3 LS (H French)-3401 Fruitvale av, O  
 Frvl 921J  
 Scandrett, Adeline Marie San Francisco  
 \*1 LS-219 Eighth av, S F Pac 2707  
 Scanlan, Martha Theresa Pasadena  
 2 LS PreM-2428 Channing way  
 Bkly 6408  
 Schacht, Frank Henry Anaheim  
 2 LS-2424 S Atherton st  
 Schade, William Henry San Francisco  
 2 Mec-1914 Fifteenth st, S F Park 5877  
 Schaffer, John Godfrev Los Angeles  
 1s Com-2226 Chapel st Bkly 879  
 Schapiro, Esmond San Francisco  
 3 LS PreL-2318 Telegraph av Bkly 5964  
 Scharsch, Rose Elizabeth Redding  
 1 LS-2632 Regent st Bkly 6403W  
 Schary, Harry Alexander Oakland  
 1 LS PreA-5305 Belvedere st, O  
 Frvl 2224J  
 Schattenburg, Otto Lee Turlock  
 2 LS PreM-2528 Ridge rd Bkly 3277  
 Schattner, Freda Caroline Edmonton, Canada  
 \*3 LS-Concord  
 Scheeline, Harry Hall Reno, Nev.  
 4 LS-2251 College av Bkly 9107  
 Scheer, George Burbridge Berkeley  
 1 Mec-2967 Piedmont av Bkly 4464  
 Scheline, Rav John Kingsburg  
 4 LS-2528 Ridge rd Bkly 3277

- Schelling, Eleanor Brawley  
1 Com-2538 Durant av Bkly 665  
Schieck, Gertrude Berkeley  
4 LS-2627 Haste st Bkly 906W  
Schieck, Helen Louise Berkeley  
2 LS-2627 Haste st Bkly 906W  
Schier, Samuel S. Turlock  
1 Chem-2534 Bancroft way Bkly 2596J  
Schilling, Karl Howard Berkeley  
4 LS-2316 LeConte av Bkly 1409  
Schilling, Walter Oakland  
2 LS-2251 College av Bkly 9107  
Schlaman, Earl Davis Spokane, Wn.  
3 Agr-2910 Elmwood court Bkly 4416J  
Schlapp, Eberhardt George  
Melbourne, Australia  
3 Agr-2414 Dana st Bkly 4035  
Schlapp, Henry Robert  
Melbourne, Australia  
8 Agr-University Farm, Davis  
Schlichting, Marie Augusta San Francisco  
1 LS-1549 Eleventh av, S F Snt 964  
Schlingheide, Leslie Bernard Berkeley  
3 LS PreL-1332 Oxford st Bkly 7464  
Schlots, Alice Eleanor Elmwood, Ill.  
4 LS-2711 Virginia st Bkly 4606J  
Schluter, Ruth Ethel Oakland  
12 LS-586 Twenty-fourth st, O Oakd 7528  
Schlueter, Theodore Loyd Oakland  
13 LS-586 Twenty-fourth st, O Oakd 7528  
Schluter, Hans Frank Orland  
14 LS and 11 Med-2600 Durant av Bkly 2598  
Schmidt, Ernest E. Whittier  
3 Agr-2407 S Atherton st Bkly 3330  
Schmidt, Oliver Spencer Oakland  
2 LS PreL-527 Montclair av, O  
Schmitt, Frank Redding  
1 LS-Oxford apts Bkly 2385W  
Schmulowitz, Abe San Francisco  
3 LS PreL-1118 Anza st, S F Pac 2369  
\*Schnelle, Anna M. M. Vancouver, B. C.  
4 LS-2735 Elmwood av Bkly 5693J  
Schoenholz, Paula San Francisco  
8 LS (H Physiol)-2021 Broderick st, S F Flmr 1704  
Schofield, Allison Edmond San Francisco  
1 LS PreL-2701 Hearst av Bkly 2421  
Schofield, Richard Sebastopol  
3 LS PreM-2634 Bancroft way Bkly 6744  
Scholl, Marguerite Julia Los Angeles  
4 LS-Hotel Shattuck Bkly 7300  
Schorer, Bernice Helen Turlock  
3 LS (H Hshld Sci)-2314 Haste st Bkly 4026  
Schrug, Ruth Bernice Point Richmond  
1 LS-60 W Scenic av, R Rchd 378  
Schreiber, Madeline Santa Monica  
1 LS-2416 Channing way Bkly 3007J  
Schroeder, Hans Emil August San Francisco  
14 LS PreM-406 Sutter st, S F Dgls 2577  
Schroeder, Marguerite Anna San Francisco  
11 LS-3682 Twentieth st, S F Mrkt 8794  
Schrott, Earl Perris  
2 Com-2534 Bancroft way Bkly 2596J  
Schuette, Curt Nicolaus San Francisco  
5 Min-930 Broderick st, S F Flmr 823  
Schulte, Gladys Edith San Francisco  
2 LS-550 Flood av, S F Randolph 1831  
Schultheis, Henry Roscoe San Francisco  
1s Juris-2814 Dwight way  
Schultz, Harry Salt Lake City, Utah  
8 Min-2124 Kittridge st Bkly 1229J  
Schulz, Herbert Harris San Francisco  
3 LS PreM-523 Ninth av, S F Pac 3744  
Schulz, Herbert Kuno San Martin  
4 Com-1730 La Loma av Bkly 8716  
Schulze, Dorothy Virginia Los Angeles  
2 LS-2725 Channing way Bkly 7950  
Schulze, Ernest Kalisch Berkeley  
3 Mec-1731 Carlton st  
Schulze, Raymond Putney Elk Grove  
2 Mec-2617 Hillegas av Bkly 104  
Schutt, Harold Gottlieb Lindsay  
1 Com-2637 Regent st  
Schuyler, Gerald B. Berkeley  
1 LS PreL-2452 Martinez av Bkly 1035  
Schwabenberg, Harold Raymond  
Sacramento  
3 LS PreM-2600 Durant av Bkly 2593  
Schwan, Dorothy Louise Oakland  
2 LS-475 Sixty-fifth st, O  
Schwaner, Katharine Winterset, Iowa  
2 LS-1267 Euclid av Bkly 8115J  
Schwartz, David Harry Los Angeles  
2 Mec-2235 Chapel st Bkly 3196J  
Schwartz, Henry Mordecai San Francisco  
2 Com-470 Thirty-first av, S F  
Pac 7713  
Schwenk, Irwin Henry Maxwell  
2 LS-2425 Durant av Bkly 1503J  
Scofield, Edith Burbridge Los Angeles  
12 LS PreM-2434 Piedmont av Bkly 8341  
Scofield, Richard Henry Los Angeles  
11 LS-2238 Ellsworth st  
Scorsur, Nicholas James San Jose  
4 Com-1711 Euclid av Bkly 9306  
Scott, Blanche Edra San Francisco  
3 LS (H Latin)-427 Ninth av, S F  
Pac 1330  
Scott, Frank Clarke Custer, Mont.  
4 LS-Pacific Unitarian School Bkly 1441  
Scott, James Coleman Ferndale  
1 LS-5618 E Sixteenth st, O Frl 2941W  
Scott, John Alexander Berkeley  
13 Mec-1616 Oxford st  
Scott, Laura Patterson Berkeley  
13 LS-2324 Vine st Bkly 4636  
Scott, Lester Warden Ukiah  
11 LS PreL-2312 College av

Scott, Marjorie	Berkeley	Belling, Edythe Sophie	San Francisco
1 LS-3050 College av	Bkly 8064	1 LS-2627 Hearst av	Bkly 3229
Scott, Mary	Nordhoff	Sellner, Eunice Georgiann	Ellensburg, Wn.
2s LS-Hotel Shattuck	Bkly 7300	1s LS-Channing apts	Bkly 6898J
Scott, Nellie Jane	San Francisco	Selwood, Marjorie Ines	San Francisco
1s LS-1259 O'Farrell st, S F	West 340	1 LS-1387 Fifth av, S F	Snat 588
Scott, Ralph Winfield	San Francisco	Senter, Willis Rolland	Lemoncove
2 Min-828 Taylor st, S F	Papt 2690	1 Agr-1516 Scenic av	Bkly 7049W
Soovel, George Haldane	San Francisco	*Servaty, Avis Justina	Fresno
2 LS PreL-2425 LeConte av	Bkly 4334	4 LS-2529 Dwight way	Bkly 4474W
Soovill, Myrtle Elvira	Grand Junction, Colo.	Setz, Helmuth Gustave	San Antonio, Tex.
3 LS-2232 Haste st	Bkly 149W	1s Chem-Berkeley Inn	Bkly 6370
Scribner, Benjamin Franklin	Berkeley	Seung, Hong Kim	Salem, Ore.
1s Chem-2500 Bancroft way	Bkly 1848	4 Mec-231 Eighth st, O	Lkad 4116
Scudder, Celia Alwynne	Berkeley	Severance, Theodate Bacheleur	Berkeley
1 LS-2229 Carlton st	Bkly 1069J	4 LS-1256 Euclid av	Bkly 8068W
Scudder, Jared Waterbury	Petaluma	Sevier, Ernest	Eureka
1s Agr-2229 Carlton st	Bkly 1068J	1 LS PreL-2712 Derby st	Bkly 1754J
Scudder, Kenyon Judson	Seattle, Wn.	Sewell, Edward Granville	Santa Rosa
4 LS-2314 Hilgard av	Bkly 4033J	3 LS (H Hist)-2115a Durant av	Bkly 1624
Seaman, Cassius Elliott	Berkeley	Sexton, Leslie Cyril	San Francisco
1 LS PreM-1323 Henry st	Bkly 4692W	2 LS PreM-54 Alma st, S F	Park 6420
Seaman, Edward Milo, Jr.	Berkeley	Seymour, Elizabeth	Mill Valley
2 LS PreM-1323 Henry st	Bkly 4692W	1 LS-1715 LeRoy av	Bkly 2351
Searles, Donald Wilbur	Hollywood	Seymour, Harry Boyd	Sacramento
3 LS-2418 College av	Bkly 4440	4 LS (H Philos)-2529 Hearst av	Bkly 40
Searls, Dean Goodwin	Berkeley	Seymour, John Laurence	Santa Monica
1 Com-3127 Eton av	Bkly 288W	4 LS (H Engl, Slavic)-2701 Hearst av	Bkly 2421
Searls, Helen May	Nevada City	Seymour, Ruth	Mill Valley
1 LS-2421 LeConte av	Bkly 3062	4 LS (H Engl)-1715 LeRoy av	Bkly 2351
Sears, Jessie Anderson	Sacramento	Shabsin, Nachman Aron	Harbin, Manchuria
1s LS-Hotel Shattuck	Bkly 7300	1 CE-722 Golden Gate av, S F	Pasadena
Seaton, Donald Lathrop	Santa Rosa	Shade, Dorothy Ashton	Bkly 2351
1 Agr-2318 Telegraph av	Bkly 5964	4 LS-1715 LeRoy av	El Centro
Seaton, Howard Louis	San Diego	Shafer, Donald Charles	Bkly 138
1 Com-2425 LeConte av	Bkly 4334	2 LS PreM-1920 Grove st	Tacoma, Wn.
Seaton, Stuart Phillips	Berkeley	Shafer, Walter Robert	Madera
1 LS PreM-1341 Peralta av	Bkly 976J	1s Com-2305 Bancroft way	Bkly 808
Sebastian, Carl William	Berkeley	Shaff, Amv	Los Angeles
1s Mec-1934 Berkeley way	Bkly 7635	1s LS-1207 Derby st	Bkly 9401J
Sebastian, Mary Irene	Berkeley	Shaffer, Esther Marie	Marvsville
3 LS-1934 Berkeley way	Bkly 7635	2 LS-1619a Scenic av	Bkly 1700J
*Secara, Nellie Maude	Madera	Shafar, Carl Gordon	Los Angeles
4 LS-2505 College av	Bkly 808	1s Agr-2418 College av	Anderson
Sedgley, Jotham Palmer	Cloverdale	Shanahan, Ellis Ellsworth	Snat 320
1 LS-Faculty Club, Campus	Bkly 2855	2 LS PreL-1255 Twenty-fifth av, S F	Susanville
Seed, Ronald Washington	Oakland	Shanks, Frederick Lewis	Bkly 102
1s Agr-569 Merrimac st, O	Oakd 7988	1s Agr-2647 Durant av	San Francisco
Segel, David	McPherson, Kans.	Shapero, Ezra	Bkly 112J
4 LS-1515 North st	Bkly 8390	1 Agr-1008 West st, O	Oroville
Seibert, Clyde Martin	Watsonville	Shapero, Samuel Morris	Bkly 6201J
3 Agr-University Farm, Davis	Dinuba	1s Com-2122 Hearst av	
Seligman, Adolph	Dinuba	Sharkey, Stella Elisabeth	
1s Com-1252 Virginia st	Bkly 2876J	1s LS-2328 Bowditch st	
Seligman, Marguerite	Grants Pass, Ore.		
1 LS-1141 Allston way	Bkly 6432J		
Selleck, Thelma	Berkeley		
2 LS-2547 Dwight way	Bkly 3229		
Sellers, Edna May			
3 LS-2627 Hearst av			

- Sharon, Hurford Clarence Piedmont  
1 LS PreL-268 Mountain av, P
- Sharp, Bessie Sprague Salt Lake City, Utah  
2 LS-2310 Hilgard av Bkly 8474W
- Sharp, Dorothy St. Helena  
2 LS-18 Prior court, S F
- Sharp, George Fred Berkeley  
\*1 LS-Hotel Morse Bkly 8300
- Sharp, Helen Salt Lake City, Utah  
2 LS-2310 Hilgard av Bkly 8474W
- Sharp, Joseph Richmond  
3 LS PreL-2218 Dana st Bkly 8267
- Sharp, Leroy Bassett Pacific Grove  
4 Agr-2428 College av Bkly 4748
- Sharp, Margaret Graham San Rafael  
\*1 LS-2627 Hearst av Bkly 3229
- Sharp, Paul Winning Pacific Grove  
1 Agr-2428 College av Bkly 4748
- Sharp, Selwyn Jackson Santa Ana  
2 Com-2200 Atherton st Bkly 4208W
- Sharpstein, Eleanor Standish Alameda  
1 LS-2237 Durant av Bkly 1958J
- Sharpstein, Jay Randolph Alameda  
4 LS and 1 Med-1545 Benton st, A
- Shattuck, David Stoddart Los Angeles  
4 LS (H Pol Sci)-2601 Durant av Bkly 23
- \*Shaub, Roe Emerson Tacoma, Wn.  
5 LS-2426 Virginia st Bkly 3472
- Shaw, Albert Dunnedin, Jr. Hollister  
3 LS PreL-2522 Ridge rd Bkly 5950
- Shaw, Charles Andreani Berkeley  
1 LS PreL-2221 Dwight way Bkly 464
- Shaw, Edward Byer Los Angeles  
4 LS and 1 Med-2521 Durant av Bkly 3437
- Shaw, Gwendolyn Berkeley  
\*3 LS-1411 Arch st Bkly 1287
- Shaw, Walter Porter Los Angeles  
\*1 Agr-2519 Ridge rd
- Shea, Gilbert James Portland, Ore.  
\*1 Com-2345 College av Bkly 62
- Shea, June MacDonald Portland, Ore.  
\*2 LS-2711 Durant av Bkly 1932J
- Shea, Martha Helen El Cajon  
1 LS-2606 Durant av Bkly 8705J
- Shea, Marv Fabiola Portland, Ore.  
1 Com-2606 Durant av Bkly 8705J
- Shea, Thomas Joseph Portland, Ore.  
1 Mec-2609 LeConte av Bkly 3836W
- Shearman, Edith Louise Berkeley  
\*2 LS-2499 Piedmont av Bkly 2610
- Shearman, Raymond Lee Berkeley  
4 LS-2499 Piedmont av Bkly 2610
- Sheedy, Helen Eliza Bakersfield  
4 LS-1516 Walnut st Bkly 7974W
- Sheldon, Eberle Charles Anaheim  
3 LS PreM-2320 Hilgard av Bkly 3392J
- Sheldon, Fred Henry, Jr. Nordhoff  
2 Agr-2518 Bancroft way Bkly 5062J
- Shen, Yuen Ting Shanghai, China  
2 Com-1998 University av
- Shepardson, Clyde Alameda  
2 LS PreM-2119 Eagle av, A Ala 1824
- Shepardson, Harry Clare Alameda  
4 LS PreM-2119 Eagle av, A Ala 1824
- Shepherd, Glen Allen Tulare  
1 Com-2500 College av
- Shepherd, Hazel Julia Stockton  
4 LS-2520 Durant av Bkly 1675
- Sheppa, Margo Pacific Grove  
3 LS (H French)-2821 Bancroft way Bkly 1765
- Sheppard, Don Carey Colusa  
\*2 LS-2228 Dana st Bkly 1053
- Sheppard, Frances Augusta Kansas City, Mo.  
3 LS PreA-2521 Dwight way Bkly 6646W
- Sherburne, Della Irene Suieun  
1 LS-2506 College av Bkly 4387
- Sherburne, Edith San Jose  
2 LS-2428 Channing way Bkly 6408
- \*Sherman, Annie Hardin Coronado  
4 LS-2732 Channing way Bkly 9817
- Sherman, Doris Margaret Oakland  
2 LS-957 Linden st, O Oakd 13
- Sherman, Mark Portland, Ore.  
1 Chem-759 Haight st, S F
- Sherman, Ruth Sacramento  
4 LS (H Philos)-2328 Warring at Bkly 8358W
- Sherman, Samuel Sterling Coronado  
1 LS-2248 Telegraph av Bkly 9011
- Sherrod, Frances Fern Corvallis, Ore.  
2 LS-2232 Haste st Bkly 149W
- Sherrod, Winifred Berkeley  
1 LS-2232 Haste st Bkly 149W
- Shewman, Ada Elizabeth Berkeley  
3 LS-2511 Dwight way Bkly 7079
- Shewman, Pearl Alberta Berkeley  
2 LS-2511 Dwight way Bkly 7079
- Shields, Aeola Winona Oakland  
2 LS-4120 Gilbert st, O Pied 2008
- Shields, Ralph Irving Eureka  
\*1 Mec-2455 Webster st
- Shiella, James Francis Fillmore  
1 Agr-2616 Virginia st
- Shier, Cyril Winifred Pasadena  
1 LS PreM-3232 Magnolia st, O
- Shillington, Bryson Fortuna  
\*2 Com-2614 Dwight way Bkly 1276
- Shimoda, Frank Kagato Los Angeles  
\*1 Chem-2308 Virginia st Bkly 6441
- Shimonowsky, Bernard Willits  
3 LS PreL-2248 Telegraph av Bkly 9011
- Shindler, H. Norris Oakland  
2 Min-2522 Ridge rd Bkly 5950

- Shine, Frankie Edel Sonora  
 \*1 LS-2524 LeConte av  
 Shipman, Marguerite Oakland  
 2 LS-184 Santa Rosa av, O Pied 7769W  
 Shippey, Hugh Long Beach  
 4 LS and 1 Juris-2521 Hearst av  
 Bkly 708  
 Shirasawa, Saikichi Berkeley  
 1 Chem-2816 College av Bkly 6916W  
 Shmuilovich, Israel Leo Tchita, Russia  
 \*1 Mec-2235 Chapel st Bkly 3196J  
 Shores, Kathleen Los Angeles  
 \*2 LS-2421 LeConte av Bkly 3062  
 Showers, Byron Jennings Fresno  
 1 Agr-2511 Dwight way Bkly 7079  
 Shrodes, Dorothy Delano  
 2 LS-2749 Dwight way Bkly 204  
 Shuck, Leota Vere San Francisco  
 \*3 LS-165 Crescent av, S F  
 Shuev, Paul Baldwin Oakland  
 3 LS PreM-1829 Adeline st, O  
 Oakd 4817  
 Shurtleff, Frances Geraldine Los Angeles  
 2 LS-2714 Ridge rd Bkly 9093  
 Shwadelson, Joseph Oakland  
 4 LS-2704 Grove st, O Oakd 4454  
 Sias, Richard Dean Corona  
 4 LS-2250 Prospect st Bkly 1784W  
 Sides, Douglas Richard Selma  
 3 LS PreL-2428 College av Bkly 4748  
 Sidev, David Wilbur Los Angeles  
 1 LS-Oxford apts Bkly 2385W  
 Sidev, L. Lillian Oakland  
 3 LS (H Math)-251 Acton pl, O  
 Mer 3616  
 Sidle, Marie Cosette Corning  
 1 LS-2626 Durant av Bkly 1289  
 Siebert, Alfred Adolph Los Angeles  
 2 LS PreM-2519 Ridge rd Bkly 1416  
 Siefkes, Lane Lincoln San Francisco  
 \*2 Mec-317 Leavenworth st, S F  
 Frkn 3791  
 Siemens, Esther Anna Fresno  
 3 LS-25 Shasta av Bkly 7296W  
 Siemer, Al Henry San Francisco  
 4 CE-2334 Durant av Bkly 3485  
 Siess, Hulda Christine Petaluma  
 1 LS-1160 Amador Bkly 2915  
 Sifford, Roy Dill Susanville  
 4 LS and 1 Juris-2617 Durant av  
 Bkly 873  
 Silbermann, Henry San Francisco  
 1 Med-1372 McAllister st, S F  
 West 4066  
 Silbermaster, Nathan Gregory San Francisco  
 \*1 LS-1612 Walnut st  
 Silcox, Donald Eugene The Dalles, Ore.  
 2 Chem-2407 S Atherton at Bkly 3380  
 Silent, Harold Charles Los Angeles  
 2 Mec-1730 La Loma av Bkly 3716
- Sill, Wilhma Wilson Pasadena  
 \*1 LS-1715 LeRoy av Bkly 855  
 Silsbee, Marie Woolman San Diego  
 2 LS-2627 Hearst av Bkly 4009  
 Silver, Milton Los Angeles  
 \*4 LS and \*1 Med-2533 Channing way  
 Silverberg, Morris Harold San Francisco  
 1 Med-2519 Durant av Bkly 8543  
 Silverman, Alice Pauline San Francisco  
 3 LS-2906 Jackson st, S F Fmr 129  
 Silverthorn, Norton E. San Gabriel  
 \*3 Mec-2314 Dwight way Bkly 8861W  
 Simard, Cyril Thomas Pleasanton  
 3 Com-2318 Glen av Bkly 3614W  
 Simmons, Daisy May St. Helena  
 \*3 LS-1822 E Fifteenth st, O  
 Simmons, Edna Hazel Oakland  
 4 LS (H Engl)-4041 Thirty-ninth av, O  
 \*Simonds, Albert Carnahan Los Angeles  
 4 LS-2607 Hearst av Bkly 5913  
 Simons, Franklin Joseph Alhambra  
 1 LS PreL-2601 Channing way  
 Bkly 5904  
 Simpson, Lesley Byrd Los Angeles  
 1 Com-2320 Bancroft way Bkly 1358J  
 Simpson, Thomas Russel Fresno  
 4 CE-2428 College av Bkly 4748  
 Simpson, Wallace Elwyn East Auburn  
 2 Com-2520 Virginia st Bkly 2606  
 Sims, Dorothy Donaldson Elk Grove  
 1 LS-2384 Bowditch st Bkly 1358W  
 Sims, Marguerite Ogden, Utah  
 \*3 LS-2519 Hillegass av Bkly 477  
 Sinai, Ida S. Stockton  
 1 LS-2524 LeConte av Bkly 2531  
 Sinclair, Esther Lakeville  
 3 LS-2732 Channing way Bkly 9317  
 Sinclair, Paul Foster Underhill, Vt.  
 4 LS-1528 Addison st  
 Sinnock, Arthur Herbert Berkeley  
 1 Agr-1600 Arch st Bkly 4093  
 Sinnock, Elsie Mae Berkeley  
 3 LS-1600 Arch st Bkly 4093  
 Sisson, Benjamin Franklin Berkeley  
 2 LS-2534 Hillegass av Bkly 6277W  
 Sisson, Minnie Mae Berkeley  
 3 LS-2534 Hillegass av Bkly 6277W  
 Sisson, Walter Louis Berkeley  
 \*1 LS PreL-2534 Hillegass av  
 Bkly 6277W  
 Sites, Ethelwynne Beth San Anselmo  
 2 LS-2421 LeConte av Bkly 3062  
 Sittig, Esther Hale Berkeley  
 2 LS PreL-1216 Oxford st Bkly 1074J  
 Sitton, Annie Belle San Leandro  
 4 LS-1849 Hayes st, S L  
 Sitz, Morris San Francisco  
 \*1 Agr-2516 Bancroft way  
 Sizer, Frank Milton Oakland  
 \*4 LS-2426 Virginia st Bkly 3472

Skaale, Arthur John	Berkeley	Smith, Charlotte Delia	Petaluma
1 Agr-2437 Martinez av	Bkly 4961	1 LS-2519 Hillegass av	Bkly 477
Skaale, Emma	Berkeley	Smith, Colin Clough	Grass Valley
3 LS-2437 Martinez av	Bkly 4961	2 Agr-2330 Telegraph av	Bkly 4429
Skelton, Leonard William	Pasadena	Smith, Darwin Jackson	Sacramento
2 LS PreM-2520 Durant av	Bkly 1675	3 LS-2529 Hearst av	Bkly 40
Skinner, Walter Stowers, Jr.	San Francisco	Smith, Doris	Oakland
21 Com-734 Bush st, S F	Krny 3476	2 LS Prel-2441 Haste st	Bkly 6522J
Slade, Lucille Mae	Berkeley	Smith, Ed Sinclair, Jr.	Coalinga
1 LS-1825 Hearst av	Bkly 5359W	2 Mec-2304 Telegraph av	Bkly 3428
Slate, Marjorie	Berkeley	Smith, Fenwick Leonard	Oakland
21 Agr-University Farm, Davis		21 LS PreM-101 Bonita av, P	Pied 2251
Slater, Edwin Osmond	Riverside	Smith, Frank Carol	Santa Barbara
3 CE-2246 Atherton st	Bkly 5479W	4 LS-2200 Piedmont av	Bkly 6760
Slater, Eva Emma	Santa Rosa	Smith, George Eliott	Eureka
3 LS-2713 Haste st	Bkly 2148	2 Com-2614 Dwight way	Bkly 1276
Slater, Howard Van A.	Los Angeles	Smith, Grace Beatrice	Corning
4 Chem-2325 Channing way	Bkly 4304W	2 LS-38 Mosswood rd	Bkly 237
Slaughter, Helen Elsie	Oakland	Smith, Harold B.	Oakland
13 LS-1202 E Eighteenth st, O	Mer 2541	2 Com-425 Bellevue av, O	Oakd 4973
Slaven, Thomas William	Sacramento	Smith, Harvey Albert	Sacramento
4 LS and 1 Juris-2333 College av		4s CE-2517 Derby st	Bkly 4848J
	Bkly 1722	Smith, Harvey Lincoln	Stockton
Sloan, Myrtle	Orosi	2 Mec-2231 Dana st	Bkly 6361J
3 LS-2533 Durant av	Bkly 665	Smith, Hattie Merriam	Onyx
Slusher, Sydney George	San Francisco	1 LS-2229 Chapel st	Bkly 1642
3 CE-1920 University av	Bkly 7586	Smith, Helen Janet	Etna Mills
*Slyfield, Emerson Upton	Los Angeles	2 LS-2519 Hillegass av	Bkly 477
4 Agr-2625 Hearst av	Bkly 7614	Smith, Helen Margaret	San Francisco
Small, Frederick Arthur	Oakland	2 LS-2828 Bowditch av	Bkly 6201J
21 Chem-542 Twenty-fifth st, O	Oakd 217	Smith, Helen Marie	Piedmont
Smallwood, Robert Guenther	Oakland	2 LS-920 Kingston av, P	Pied 6301
12 Chem-2001 Vicksburg av, O	Frvl 756	Smith, Howard Watkins	Berkeley
Smart, Eben Knight	Grass Valley	3 LS-369 Thirty-eighth st, O	Pied 4765J
1 LS PreM-2647 Durant av	Bkly 102	Smith, John Walter	Piedmont
Smart, Georgia Uarda	Logan, Utah	24 Agr-920 Kingston av, P	Pied 6301
2 LS-Sequoia apts	Bkly 1527W	Smith, Joseph Thomas	Livermore
Smart, Mary Ruth	Los Angeles	4 LS and 1 Juris-2333 College av	
4 LS (H Hist)-2434 Piedmont av			Bkly 1722
	Bkly 8341	Smith, Lawrence Archie	Clifton, Ariz.
Smelsor, Lorene Edna	Napa	2 Com-2416 College av	Bkly 8476J
1 LS-2695 Cedar st	Bkly 538	Smith, Leland Seymour	Berkeley
Smirle, Robert Leland	San Francisco	25s Agr-1527 Hopkins st	Bkly 3925
4 Com-679 McAllister st, S F	Park 3765	Smith, Lillian DuBois	Oakland
Smith, Albert Brodie	Honolulu, T. H.	4 LS (H Hshld Art)-1437 Second av, O	Mer 3087
3 LS-2614 Dwight way	Bkly 1276		
Smith, Alvin David	San Francisco	Smith, Louis James	San Francisco
2 Chem-1050 Lake st, S F	Pac 4485	1s LS-553 Oak st, S F	Mkrt 5908
Smith, Amrah Dinwiddie	Berkeley	Smith, Lulu Mitchell	Honolulu, T. H.
4 LS-2703 Fulton st	Bkly 4458	2 LS-1409 Arch st	Bkly 1972J
Smith, Bernice Dunlap	Honolulu, T. H.	Smith, Margaret Lucile	Oakland
4 LS-1409 Arch st	Bkly 1972J	2 LS-4013 Adeline st, O	Pied 2670J
Smith, Budd J.	Grass Valley	Smith, Marguerite Marie	Santa Cruz
22 LS PreA-1933 Miliva st		2 LS-2526 Hilgard av	Bkly 1441
Smith, Carl Victor	Oakland	Smith, Martha Esther	Sacramento
2 Agr-2402 Hearst av, O		21 LS-2695 Cedar st	Bkly 538
Smith, Carroll Hutchinson	El Cajon	Smith, Mary Elizabeth	Coalinga
3 LS-2601 Channing way	Bkly 5904	8 LS-2526 Hilgard av	Bkly 1441
Smith, Charles Francis	Monrovia	Smith, Mildred Marie	San Francisco
1 Com-2334 Carlton st	Bkly 2478W	2 LS-3893 Clay st, S F	Pac 4427

- Smith, Milton Maxim Crescent City  
1 Mec-2701 Hearst av Bkly 2421
- Smith, Morton Bailey Berkeley  
2 Mec-2431 Woolsey st Bkly 8036W
- \*Smith, Olive Van Rensselaer Santa Rosa, N. M.  
4 LS-2702 Virginia st Bkly 6789
- Smith, Percy Cortelvou Oakland  
13 Mec-380 Euclid av, O Oakd 2457
- Smith, Robert Bowen Vancouver, Wn.  
1 Mec-1540 La Loma av Bkly 4519
- \*Smith, Ruth Almede Berkeley  
4 LS-2628 Etna st Bkly 4840
- Smith, Salome Hunt San Francisco  
2 LS-2627 Hearst av Bkly 8229
- Smith, Stuart San Rafael  
12 LS PreL-2520 LeConte av Bkly 8889
- Smith, Sydney Kinnear Vallejo  
3 LS PreM-1838 Arch st Bkly 8379J
- Smith, Vergil Thomas Auburn  
2 LS-2405 Telegraph av Bkly 5414W
- Smith, Vestina Pearl San Francisco  
1 Com-1930 Eleventh av, S F Snt 106
- Smith, Vincent Portland, Ore.  
12 LS-2521 Hearst av Bkly 708
- Smith, Will Howard Oakland  
4 CE-4013 Adeline st, O Pied 976
- Smyth, Francis Scott Portland, Ore.  
3 LS-1619 Walnut st Bkly 2611J
- Smyth, Helen Barton Berkeley  
3 LS-2509 Hearst av Bkly 1151W
- Smyth, Robert Lacy Berkeley  
4 LS (H Hist)-2509 Hearst av Bkly 1151W
- Smyth, Sidney Hugh Portland, Ore.  
4 Mec-2001 Allston way Bkly 6710
- Sneath, Karl Lester Santa Cruz  
1s Agr-2501 Ridge rd Bkly 1335
- Snee, Lovenia Lytton Santa Rosa  
3 LS-2831 Regent st Bkly 4750W
- Snider, Myrtle May Denair  
4 LS-2223 1/2 Chapel st Bkly 5763
- Snider, Reuel Pembroke San Francisco  
2 LS-2326 Warring st Bkly 1748
- Snodgrass, Eleanor Lavinia Berkeley  
12 LS-1735 Bushnell pl Bkly 7292
- Snodgrass, Harold Gladstone Berkeley  
2 LS-1735 Bushnell pl Bkly 7292
- Snook, Cleone Vivian Healdsburg  
11 LS-2627 Hearst av Bkly 3229
- Snook, Marguerite Lucile Healdsburg  
1 LS-2500 Durant av Bkly 8464W
- Snook, Preston Edward Oakland  
3 LS PreL-354 Thirty-fourth st, O Pied 789
- Snook, William Sayer San Francisco  
3 LS-2610 Durant av Bkly 7804
- Snyder, David Pugh Madison  
1 Agr-5458 Broadway, O
- Snyder, Elizabeth Hollywood  
4 LS (H Hist)-2709 Channing way Bkly 8528
- Snyder, Olof Eugene Alameda  
2 Agr-877 Walnut st, A Ala 3895
- Snyder, Robert Wade Colusa  
4 LS-1345 Weber st, A Ala 4219
- Soderberg, Milton Alexander Kerman  
4 Agr-2128 Durant av Bkly 8461
- Soher, Hubert Jean San Francisco  
11 Agr-1361 McAllister st, S F West 1421
- Solomon, Adrian Roy San Francisco  
12 Min-4050 Twenty-fourth st, S F Man 8010
- Solomon, Alfred P. Oakland  
1 LS PreL-1077 Sixtieth st, O Pied 5597J
- Solomon, Melvin Oakland  
3 LS PreL-1077 Sixtieth st, O Pied 5597J
- Sommer, Anna Louise Pasadena  
2 LS PreM-2428 Channing way Bkly 6408
- Somps, George Peter Oakland  
1 LS PreL-906 Lakeshore av, O Oakd 2643
- Sonnichsen, Sonnich Christian Chicago, Ill.  
3 LS-1826 Parker st
- Soo-Hoo, Antoinette San Rafael  
4 LS-2114 Channing way
- Sorrick, Clay Hanlin Berkeley  
2 LS PreL-2330 Durant av Bkly 5987
- Sosso, Estelle Henley San Francisco  
1 LS-179 Delmar st, S F Mrkt 6423
- Soulé, Alta Josephine Forest Grove, Ore.  
3 LS-2616 Etna st Bkly 1059
- Spader, Genevieve San Francisco  
2 LS-1093 Dolores st, S F Valen 5993
- Spanne, Peter Lauritzen Lompoc  
4 CE-Oxford apts Bkly 2385W
- Spare, Edith Claire Los Angeles  
2 LS-2624 Virginia st Bkly 3663W
- Spare, Helen Frances San Diego  
1 LS-2417 LeConte av Bkly 5650
- Spaulding, Robert Kilburn Oakland  
1 LS-3850 Clark st, O Pied 3185
- Spear, Albion Whitney Alameda  
3 LS-2251 College av Bkly 9107
- Spear, Lewis Emerson Alameda  
1 Mec-1306 Sherman st, A Ala 349
- Spence, Dorothy Los Angeles  
1 LS-2710 Channing way Bkly 9520
- Spencer, Eldridge Ted Berkeley  
4 LS PreA-1737 Channing way Bkly 3609J
- Spencer, Helen Ward Los Angeles  
2 LS PreM-2702 Virginia st Bkly 6789
- Spencer, Robert Raymond Ashland, Ore.  
11 Chem-2616 Virginia st Bkly 6716



- Spencer, Thomas Providence, R. I.  
4 Mec-1780 La Loma av Bkly 8716  
Sperry, Arlo Martin Concord  
3 Min-1618 Milvia st  
Spicklemire, Nelson Edwin Tulare  
4 CE-2500 College av Bkly 5941  
Spiegelman, Sollie Louis San Francisco  
3 Com-1646 Sanchez st, S F Val 5906  
Spiegl, Melville K. San Francisco  
2 Com PreL-2818 Telegraph av  
Bkly 5964  
Spielberg, Abraham Kamenetz, Russia  
\*1 Mec-2201 Ellsworth st Bkly 6037W  
\*Spiera, Marguerite Louise San Jose  
4 LS-2441 Prince st Bkly 754J  
Spitler, Gladys Mayne Lindsay  
2 LS-2643 Hillegass av Bkly 264  
Spofford, Eldon Battles Berkeley  
3 LS PreL-2114 Durant av Bkly 7426J  
Spohn, John Henry, Jr. Berkeley  
3 LS-9 Plaza dr Bkly 7794J  
Sprague, Thomas Oxnard Menlo Park  
3 Agr-1809 Euclid av Bkly 1615  
Sprague, William Wallace Menlo Park  
4 Min-1809 Euclid av Bkly 1615  
Spridgen, William Austin Petaluma  
\*1 Com-271 Ninth av, S F Pac 1899  
Sprigg, Rodney Searle San Diego  
3 LS PreL-2646 Dwight way Bkly 4104  
Sprinkle, Melson Rudge Glendale  
4 Agr-2226 Chapel st Bkly 879  
Sproul, Harry Allan Berkeley  
2 LS-2223 Derby st Bkly 2805  
Spunn, Eugene Reuben San Francisco  
3 LS PreA-2250 Fulton st Bkly 8284  
Spunn, Joseph Morris Hollywood  
\*1s LS PreA-2250 Fulton st Bkly 8284  
\*Spurrier, Frank McCray Paso Robles  
4 Agr-2616 Virginia st Bkly 6716  
Squire, Mabel Marguerite Oakland  
2 LS-5212 Miles av, O Pied 8011W  
Stabler, William Henry Redding  
\*4 LS-2911½ Grove st  
Stacy, Angie Tibbetts San Francisco  
4 LS-3372½ Twenty-fifth st, S F  
Stafford, Douglas Daniel Alameda  
1 LS PreM-2034 San Antonio av, A  
Ala 1568  
Stafford, Henry Edwin Salinas  
3 LS PreM-2616 Virginia st Bkly 6716  
Stafford, Raub Merrill Marysville  
4 Agr-1730 La Loma av Bkly 8716  
Stahl, Irving Berkeley  
\*4 LS-Shattuck Hotel Bkly 7800  
Stahlke, Lillian Augusta Pasadena  
2 LS-3025 Deakin st Bkly 4388J  
Stairs, Marybeth Berkeley  
2 LS-2149 Blake st Bkly 7184J  
Standlev, Martha Lamira Tulare  
\*1s LS-2240 Telegraph av Bkly 1249  
Stanford, Hilda Irene Delta, Colo.  
2 LS-2823 College av Bkly 8590W  
Stanford, Perlle Louise San Francisco  
3 LS-Shattuck Hotel Bkly 7800  
Stanley, Elizabeth Lydia Pasadena  
2 LS-2531 Ridge rd Bkly 6485  
Stanley, Sherwood Leonard San Diego  
1 Chem-2337½ Grant st  
Stannard, Amy Nivison Ashland, Ore.  
3 LS PreM-2952 College av Bkly 7162W  
Stannard, Cedric Phoenix, Ariz.  
3 LS PreM-2226 Chapel st Bkly 879  
Stanyan, Martha Ann San Francisco  
1 LS-2006 Bush st, S F Flmr 2429  
\*Stanyan, Starr Walker West Medford, Mass.  
4 LS-2520 Durant av Bkly 1675  
Starbird, Roy San Francisco  
4 Min-2715 Channing way Bkly 2437J  
Starbuck, Raymond Jessup Fullerton  
3 Agr-2625 Hearst av Bkly 7614  
Stark, Edith Georgie Martinez  
4 LS-2328 Bowditch st Bkly 6201J  
Starkweather, Mary Eliza Portland, Ore.  
3 LS (H Philos)-1809 Euclid av  
Bkly 1615  
Starr, Fred Eugene Oakland  
1 Com-755 Wesley av, O Lksd 822  
Starr, Rupert Edison Jamestown  
\*2 Agr-2316 Bowditch st Bkly 6504  
Stauffer, Marie Katherine San Francisco  
\*1 LS-601 Broderick st, S F West 9272  
Staunton, Neal Los Angeles  
4 LS and 1 Juris-2425 LeConte av  
Bkly 4334  
Stayner, Marian Shaw Salt Lake City, Utah  
4 LS-2383 Channing way Bkly 5468J  
Stearns, Day-Verne Herbert El Paso, Texas  
2 Com-2442 Haste st Bkly 5418  
Stearns, Grace Coues Holtville  
2 LS-2702 Virginia st Bkly 6789  
Stebbins, Harry Young East Auburn  
2s Mec-2330 Telegraph av Bkly 4429  
Steel, Carolyn Berkeley  
2 LS-End of Buena Vista way Bkly 8973  
Steel, Van Hartwell Oroville  
2 LS PreL-2200 Piedmont av  
Bkly 6760  
Steele, Frank Rawson Berkeley  
2 Agr-2311 Bancroft way Bkly 214  
Steele, Lester L. Oakland  
\*3 LS-317 Central Bank bldg, O  
Lksd 283  
Steele, Sarah Elizabeth Knappa, Ore.  
4 LS-1641 Euclid av Bkly 2401  
Steen, Edwyn French Berkeley  
3 LS PreL-2804 Webster st Bkly 2216  
Steen, Heber Spencer Berkeley  
3 LS PreL-2804 Webster st Bkly 2216

- Steeves, Dudley Whitney Hayward  
 2 Mec-2617 Durant av Bkly 878  
 Steeves, Kathleen Amanda Ferndale  
 1 LS-2033 Delaware st Bkly 6619  
 Stegman, Mildred Lola Oakland  
 2 LS-2322 Fruitvale av, O Frvl 689W  
 Steiger, Margaret Abbie Vacaville  
 4 LS-2624 Virginia st Bkly 3663  
 Steigman, Emanuel San Francisco  
 12 Agr-2632 Durant av Bkly 5137  
 Steigman, Mitchell San Francisco  
 1 CE-2632 Durant av Bkly 5137  
 Stein, Jack Lorenz Berkeley  
 2 LS PreM-1423 Walnut st Bkly 6356  
 Steinberg, Siegfried San Francisco  
 3 LS-2544 Buena Vista way Bkly 5108J  
 Steindorff, Elfrida Berkeley  
 4 LS-5302 Broadway, O Pied 3485  
 Steindorff, Lillian Oakland  
 3 LS-5302 Broadway, O Pied 3485  
 Steinegger, Laurence Henry Berkeley  
 12 LS PreL-2313 Prince st  
 Steinmann, Leona Berkeley  
 4 LS (H Ger)-2610 McGee av  
 Steinmann, Theodore Bernard San Diego  
 1 LS PreM-138 The Uplands Bkly 4044  
 Steinnort, Carl Russell Santa Rosa  
 2 Com-2721 Channing way Bkly 1577  
 Stem, Oliver Clarence Ventura  
 2 Agr-2428 College av Bkly 4748  
 Stephany, Lillian Thekla Berlin, Germany  
 4 LS-2723 Durant av Bkly 9531  
 Stephens, Charles Edwin Denison, Texas  
 1 LS PreL-2426 Virginia st Bkly 3472  
 Stephens, Gordon Fitzhugh Hollywood  
 4 LS and 1 Juris-2400 Bancroft way  
 Bkly 78  
 Stephens, Paul Madison  
 1 LS PreL-2200 Piedmont av Bkly 6760  
 Stephens, Thomas Jackson Madison  
 3 LS PreL-2200 Piedmont av Bkly 6760  
 Stephenson, Halley Earnest Courtland  
 3 Agr-2520 Haste st Bkly 2463  
 Stephenson, Ruth Berkeley  
 2 LS-2520 Haste st Bkly 2463  
 Stephenson, Waite Henry Oakland  
 4 LS and 1 Juris-2683 Orange av, O  
 Frvl 635  
 Stephenson, Wayne B. San Francisco  
 3 Com-2219 Union st Bkly 7968  
 Sterling, Florence Hildreth Bishop  
 11 LS-2713 Haste st Bkly 2148  
 Stern, Herman Jastro Los Angeles  
 1 Chem-Glengary apts Berkeley  
 Stern, Norman Benjamin Berkeley  
 4 LS-2322 Cedar st Bkly 2048  
 Stetson, Philip Cushing San Rafael  
 14 LS-1809 Euclid av Bkly 1615  
 Stevens, Dorothe Marie Piedmont  
 1 LS-218 Carmel av, P
- Stevens, Horace James Corvallis, Ore.  
 3 Agr-2500 Durant av Bkly 2500  
 Stevenson, John Lyons Holtville  
 1 LS PreL-2526 Hilgard av Bkly 1441  
 Stevenson, Neva Marie San Francisco  
 1 LS-156 Grattan st, S F Park 292  
 Stevenson, Olive Lee Riverside  
 4 LS (H Hist)-2435 Hilgard av  
 Bkly 6406  
 Stevenson, Robert Elmer Lytton  
 3s Mec-2248 E Twenty-fifth st, O  
 Frvl 1899W  
 Stevick, Guy LeRoy Palo Alto  
 2 LS PreL-2380 Telegraph av Bkly 4429  
 Stevick, Nana Stanford University  
 14 LS-1616 La Vereda av Bkly 8633  
 Stewart, Alice Gertrude Eureka  
 2 LS-2713 Haste st Bkly 2148  
 Stewart, Belle Ritchie Berkeley  
 4 LS-2830 Warring st Bkly 1620  
 Stewart, Donald Gordon Chico  
 12 LS-2520 Durant av Bkly 1673  
 Stewart, Fannie Covert Hanford  
 3 LS-2333 Channing way Bkly 8151  
 Stewart, Floyd Wayne San Jose  
 4 Com-2426 Virginia st Bkly 8472  
 Stewart, Francis Herbert San Jose  
 13 LS PreA-2345 College av Bkly 62  
 Stewart, George Stirling Exeter  
 3 LS-2442 Haste st Bkly 5418  
 Stewart, Harold Lord Chico  
 12 LS PreM-1411 Arch st Bkly 1287  
 Stewart, John Archer Berkeley  
 2 LS PreM-1514 Walnut st Bkly 7329  
 Stewart, Lucy Elden Santa Monica  
 2 LS-2506 College av Bkly 8347  
 Stewart, Marion Margaret Berkeley  
 1 LS-2330 Warring st Bkly 1620  
 Stewart, Ronald Bowman San Francisco  
 2 Mec-2610 Durant av Bkly 7804  
 Stich, William Joseph Sacramento  
 4 Mec-Berkshire apts Bkly 8428  
 Stickney, E. Louise Ingleswood  
 3 LS-2435 Hilgard av Bkly 6406  
 Stickney, George Walton Upland  
 4 Agr-2248 Telegraph av Bkly 9011  
 Still, Glenn M. Long Beach  
 2 Agr-2501 Ridge rd Bkly 1335  
 Stirling, Matthew Williams Berkeley  
 2 LS-2439 Martinez av Bkly 8208  
 Stirman, Edith Cain San Francisco  
 2 LS-Bancroft apts Bkly 1098J  
 Stockle, Mary Emily San Francisco  
 2 LS-2627 Hearst av Bkly 3229  
 Stokes, Walter Tyrrell Richmond  
 3 LS PreM (H Physiol)-2701 Benvenue  
 av Bkly 1442W  
 Stone, Elmer Ellsworth San Francisco  
 14 LS PreM-2519 Ridge rd Bkly 1416  
 Stone, Harold Joiner Ceres  
 1s LS-2606 Dwight way

- Stone, Katherine Berkeley  
2 LS-1520 Hawthorne ter Bkly 1120  
Stone, Marshall Gill Long Beach  
1 Com-2646 Dwight way Bkly 4104  
Stonebrook, Mary Edna South Pasadena  
4 LS (H Latin)-2400 Piedmont av Bkly 5224  
Stoner, Dorothy Kansas City, Mo.  
3 LS (H Engl)-2725 Channing way Bkly 7950  
Stoner, Melicus Leroy Inglewood  
12 Agr-2128 Durant av Bkly 3461  
Stonesifer, Evalyn Rowena Berkeley  
4 LS-2446 Prospect st Bkly 8017J  
Stoops, Robert Cochran Oakland  
1 Com-5833 Colby st, O Pied 2045  
Storie, Raymond Earl Holtville  
4 Agr-2448 Martinez av  
Story, Edith H. Folsom  
12 LS-2327 Bancroft way Bkly 5816  
Stout, Alan Stephenson Ceres  
2 LS-1734 Walnut st  
Stout, Alice Edith Ceres  
11 LS-1559 LeRoy av  
Stout, Eleanor S. Berkeley  
2 LS-1430 Spruce st Bkly 2378J  
Stout, Esther Winnie Ceres  
8 LS (H Engl)-The Alameda and Lover's lane Bkly 4697J  
Stout, Katharine Pasadena  
12 LS-2417 Bancroft way Bkly 8720W  
Stow, Forest Chadbourne Walnut Creek  
2 LS PreL-Walnut Creek  
Stout, Eleanor Doris San Francisco  
1 LS-2305 Scott st, S F Flmr 1632  
Strain, Clara Viola Berkeley  
11 LS-Claremont Hotel Bkly 9300  
Stranahan, Frances Ann Coalinga  
3 LS (H Pub Spkg)-1736 Oxford st Bkly 7247  
Strange, Ian Maclaren Lodi  
1 Com-1619 Walnut st Bkly 2611J  
Strickland, Helen Marie San Francisco  
1 LS-570 Eleventh av, S F  
Striehn, Frank Henry Kansas City, Mo.  
3 Agr-University Farm, Davis  
Strong, Edna Williams Oakland  
4 LS (H Engl)-3818 Carrington st, O Frvl 1333J  
Strong, Florence Oakland  
12 LS-5640 Shafter av, O Pied 7514  
Strother, Sarah Elizabeth Fresno  
3 LS-2420 College av Bkly 8391  
Struble, Calmur John San Diego  
4 LS and 1 Juris-2551 Dwight way Bkly 3688W  
Struble, Marv Shaw San Diego  
2 LS-2551 Dwight way Bkly 3688W  
Stuart, Marjorie Isabel Berkeley  
3 LS-2440 Haste st Bkly 4160W
- \*Stubbs, Ruth Gray Reno, Nev.  
4 LS-1516 Spruce st Bkly 3439W  
Stubenrauch, Arnold Valentine, Jr. Berkeley  
2 Agr-2747 Woolsey st Bkly 8212  
Stucken, Edward Charles Chowchilla  
2 LS-Bancroft apts  
Stucki, Benjamin Altadena  
12 LS-2536 College av  
Studebaker, Marguerite Catherine Glendale  
11 LS-2624 Virginia st Bkly 3663  
Stull, Robert Judson San Jose  
5 Mec-2519 Ridge rd Bkly 1416  
Stumm, Richard August Berkeley  
2 LS-1504 Josephine st Bkly 1924  
Sturgis, Joseph Carson Portland, Ore.  
13 LS PreL-2631 Benvenue av Bkly 8141  
Stut, Edna Adolphine Oakland  
8 LS-735 Adeline st, O Oakd 9104  
Styles, Ethel Marie Santa Rosa  
4 LS-2702 Virginia st Bkly 6789  
Suess, Dorothy Dewey Redlands  
1 LS-2417 LeConte av Bkly 5650  
Sugiyama, Ycshiji San Francisco  
11 LS PreM-278 Third st, S F Krny 3002  
Suits, Charles William Santa Monica  
3 Agr-University Farm, Davis  
Sullivan, Blanche Gertrude San Leandro  
11 LS-573 Broadmoor blvd, S L S L 299J  
Sullivan, Charles Edward San Bernardino  
4 Agr-2600 Durant av Bkly 2593  
Sullivan, Maureen Catherine Vallejo  
3 LS-Tallac st Bkly 7296J  
Sumek, Dee O. Los Angeles  
1 LS-2416 College av Bkly 8476J  
Sun, Tao China  
3 LS-2247 Channing way Bkly 1678  
Sundberg, Carl San Francisco  
2 Mec-1813 Ninth st  
Suppes, Raymond Louis Los Angeles  
3 Agr-2531 Channing way Bkly 7068W  
Surrhne, Hubert Modesto  
12 LS-2530 Ridge rd Bkly 775W  
Susaceta, Eladio Santiago de Chile  
4 Agr-University Farm, Davis  
Sussdorff, Homer I. G. San Francisco  
4 LS and 1 Med-2542 Chilton way Bkly 2186  
Sutherland, Helen Earle San Francisco  
1 LS PreA-2732 Channing way Bkly 9317  
Sutherland, Marion Pendreigh New Westminster, B. C.  
3 LS-2531 Ridge rd Bkly 6485  
Sutkamp, Bernadine Berkeley  
4 LS-2304 Telegraph av Bkly 8428  
Sutter, Monroe San Francisco  
2 LS PreM-2024 Virginia st

- Sutton, Avis Lillian  
 \*3 LS-2123 Kittridge st  
 San Francisco Bkly 8765
- Sutton, Ben Bryan  
 2 Com-1784 Walnut st  
 Hanford Bkly 6101J
- Sutton, Chase Elverton  
 Los Angeles Bkly 2608
- Sutton, Marion  
 13 CE-2520 Virginia st  
 Berkeley Bkly 2648J
- Suydam, Lillian  
 2 LS-2425 Oregon st  
 Alameda Bkly 2648J
- 2 LS-1012 Union st, A  
 Ala 2890
- Svenberg, Elfreda Sofia  
 San Francisco Bkly 8873
- 14 LS-2542 Durant av  
 Bkly 8873
- Swaim, George Tupper  
 Mayfield Bkly 7997
- 4 Agr-2536 Bancroft way  
 Oakland Bkly 7997
- Swan, Beatrice Frances  
 Oakland Bkly 7997
- 2 LS-2984 West st, O  
 Oakd 4574
- Swan, Glenn Vernell  
 Grinnell, Ia Bkly 7997
- 4 LS-2526 Regent st  
 Colusa Bkly 7675
- Swank, Arthur Jackson  
 Colusa Bkly 7675
- 4 Mec-1825 Virginia st  
 Colusa Bkly 7675
- Swank, Dorothy May  
 Colusa Bkly 7675
- 4 LS-1825 Virginia st  
 Eureka Bkly 1765
- Swanson, Mildred V.  
 Bkly 1765
- 2 LS-2821 Bancroft way  
 Fallon Bkly 214
- Swanson, Vivian Brook  
 Fallon Bkly 214
- 1 LS-2311 Bancroft way  
 Swanton, Charles Leslie  
 Sacramento Bkly 6744
- 1 Mec-2634 Bancroft way  
 Berkeley Bkly 6744
- \*Swasey, Ruth Robbins  
 Berkeley Bkly 8413
- 5 LS-2525 Durant av  
 Alameda Ala 950
- Sweeney, Leland Warren  
 Ala 950
- 2 Com-2450 San Jose av, A  
 Oakland Bkly 8703
- Sweeney, Ruth  
 Oakland Bkly 8703
- 1 LS-2907 Linden st, O  
 Hollister Bkly 1241J
- Sweetland, Reginald Edwin  
 Bkly 1241J
- 12 LS-2407 Bowditch st  
 Santa Barbara Bkly 6789
- Sweetser, Katharyn L.  
 Santa Barbara Bkly 6789
- 4 LS-2702 Virginia st  
 Oakland Bkly 6789
- Swezey, Frances Comba  
 Oakland Bkly 6789
- 4 LS (H Pol Sci)-382 Sixty-third st, O  
 Pied 1567
- San Jose
- Sweigert, Cloyd J.  
 3 Agr-University Farm, Davis  
 Seattle, Wn. Bkly 6780J
- Swift, Henry McKean  
 Bkly 6780J
- 12 LS-2486 Durant av  
 Berkeley Bkly 3262W
- Switzer, Wellington Treat  
 Berkeley Bkly 3262W
- 21 Com-2921 Forest av  
 Arbuckle Bkly 3262W
- Swoboda, Lydia Marie  
 Arbuckle Bkly 3262W
- 1 LS-14 Hillside court  
 Berkeley Bkly 2175W
- Swortfiguer, Helen Jett  
 Berkeley Bkly 2175W
- 4 LS-2705 Benvenue av  
 Berkeley Bkly 3691J
- Syder, James Lambricht  
 Berkeley Bkly 3691J
- 2 Min-2534 Regent st  
 Berkeley Bkly 3619
- Sylvester, Anna Chapin  
 Bkly 3619
- 12 LS-1623 Hearst av  
 Grover, Colo. Bkly 3619
- Sylvester, Susa Craig  
 Grover, Colo. Bkly 3619
- 11 LS-2582 Hillegass av  
 Berkeley Bkly 2537W
- Symes, Harold Bertram  
 Berkeley Bkly 2537W
- 2 Com-2218 Roosevelt av  
 Berkeley Bkly 2537W
- Symmons, Viola Carolyn  
 Berkeley Bkly 2537W
- 1 LS-3304 Claremont av  
 Pied 1572J
- \*Taber, Edna May  
 4 LS-451 Hudson st, O  
 Oakland Pied 4740
- Taber, Loren Bennett  
 San Francisco Bkly 4740
- 2 LS-2915 California st, S F  
 West 464
- Tada, Tai Louis  
 Oakland Bkly 6441
- 4 Mec-2308 Virginia st  
 Bkly 6441
- Tagashira, Chiyoichi Joseph  
 Sacramento Bkly 7449
- 2 LS-2219 Channing way  
 Bkly 7449
- Taggard, Genevieve  
 Honolulu, T. H. Bkly 5816
- 3 LS-2327 Bancroft way  
 Los Angeles Bkly 5816
- \*Taggart, Erma Denny  
 Los Angeles Bkly 5816
- 4 LS-Euclid apts  
 Los Angeles Bkly 5816
- Tagorda, Luis Basilizo  
 Santo Domingo, P. I. Bkly 5816
- 3 LS PreL-221 Carmel av, O  
 Pied 2833W
- \*Talbert, Helen  
 Berkeley Bkly 663
- 4 LS-2021 Channing way  
 Bkly 663
- Talbot, Elizabeth  
 Santa Rosa Bkly 5990W
- 3 LS-1610 Arch st  
 Santa Rosa Bkly 5990W
- Talbot, Joseph Raegen  
 Santa Rosa Bkly 5990W
- 4 LS and 1 Juris-2428 Haste st  
 Bkly 5587W
- Talbot, Lee Ignacio  
 El Paso, Texas Bkly 6716
- 1 LS-2616 Virginia st  
 Bkly 6716
- Talbot, Chester Allen  
 San Jose Bkly 1712
- 13 LS-2415 Durant av  
 Bkly 1712
- Talmadge, Susan  
 Pasadena Bkly 5650
- 1 LS-2417 LeConte av  
 Bkly 5650
- Tan, Len B.  
 Oakland Bkly 5650
- 1 Agr-3631 Market st, O  
 Pied 3213W
- Tanner, George Charles  
 Liveoak Bkly 5650
- 14 LS-2228 Dana st  
 St. Louis, Mo. Bkly 4440
- Tapscott, Jo Joalin  
 Bkly 4440
- 13 Mec-2418 College av  
 Yreka Bkly 4440
- Tapscott, Katharine Isabel  
 Yreka Bkly 4440
- 4 LS (H Philoa)-1708 Scenic av  
 Bkly 6064J
- Tarantino, Vincent Peter  
 San Francisco Bkly 6064J
- 1 LS PreM-903 Union st, S F  
 San Francisco Bkly 7068W
- Taussig, Eric Bert  
 San Francisco Bkly 7068W
- 3 LS-2581 Channing way  
 Salinas Bkly 7068W
- Tavernetti, Achilles Alfred  
 Salinas Bkly 7068W
- 4 Agr-University Farm, Davis  
 Berkeley Bkly 7068W
- Taylor, Augusta Clara  
 Berkeley Bkly 7068W
- 1 LS PreA-1917 Virginia st  
 Los Angeles Bkly 9323W
- Taylor, David Belton  
 Los Angeles Bkly 9323W
- 2 CE-Oxford apts  
 Bkly 9323W
- Taylor, Emmett Charles  
 Grass Valley Bkly 2593
- 3 LS PreM-2600 Durant av  
 Bkly 2593
- Taylor, Florence Vernice  
 Oxnard Bkly 1615
- 3 LS-1809 Euclid av  
 Bkly 1615
- Taylor, Frances  
 San Francisco Bkly 8528
- 13 LS-2709 Channing way  
 Bkly 8528
- Taylor, Fred Henry  
 Susanville Bkly 2421
- 4 Agr-2701 Hearst av  
 Nevada City Bkly 2421
- Taylor, George Francis  
 Nevada City Bkly 2421
- 4 Com-2520 Virginia st  
 Bkly 2608
- Taylor, James Anthony  
 San Francisco Bkly 2608
- 13 LS-U. S. Immigration Sta., S F  
 Sutr 1743

- Taylor, James Sherrill Fillmore  
 2 Com-2426 Virginia st Bkly 3472  
 Taylor, Laurence Wilson Berkeley  
 8 Agr-University Farm, Davis  
 Taylor, Leland Harris Oakland  
 '3 LS PreM-1022 Bella Vista av, O Mer 2645  
 Taylor, Margaret Jane Spokane, Wn. Bkly 7262  
 3 LS-2035 Los Angeles av  
 Taylor, Margaret Powers Salt Lake City, Utah  
 4 LS PreM-2821 Bancroft way Bkly 1765  
 Taylor, Myrtle Grace Berkeley  
 3 LS-2010 Durant av Bkly 3940  
 Tays, George Berkeley  
 2 Mec-2643 Channing way Bkly 2276W  
 Tays, Linda Berkeley  
 '2s LS-2643 Channing way Bkly 2276W  
 Teague, Gladys Anita Berkeley  
 4 LS-15 Eton court Bkly 4084J  
 Teale, George Francis Riverside  
 3 Mec-2520 Virginia st Bkly 2608  
 Teel, Mary Elizabeth Spokane, Wn. Bkly 4443J  
 1 LS-2408 Bancroft way  
 Tegner, Carl Santa Monica Bkly 8064J  
 1 Agr-2500 Durant av  
 Teizo, Shimazu San Francisco Bkly 6441  
 '1s Com-2308 Virginia st  
 Templeton, Marguerite Portland, Ore.  
 3 LS (H French)-2603 Benvenue av Bkly 5358J  
 Tenney, Edward Vernon Berkeley Bkly 7485W  
 2 Mec-2536 Etna st  
 Tenney, George Clinton San Jose Bkly 3112J  
 1 Mec-2018 Virginia st  
 Tenney, Rollin Wood San Francisco  
 1 Com-2626 Benvenue av Bkly 4895  
 Terry, Samuel Walker Alameda  
 3 LS-2522 Ridge rd Bkly 5950  
 Tesche, William Carl San Jose Bkly 1184  
 3 Agr-2332 College av  
 Tessin, Carrie Henrietta Napa Bkly 5224  
 '2 LS-2400 Piedmont av  
 Teter, Harriette Margaret Berkeley Bkly 4270  
 2 LS-2141 Berkeley way  
 Tetlev, Frances Alice Riverside Bkly 808  
 2 LS-2505 College av  
 Texdahl, Myrtle Christine Berkeley Bkly 3040W  
 1 LS-3035 Harper st  
 Thacher, Edward Nordhoff Bkly 6994  
 '8 LS-2515 LeConte av  
 Thacher, Elizabeth Nordhoff Bkly 1302  
 1 LS-2235 Piedmont av  
 Thacher, Morton El Cajon  
 4 Agr-University Farm, Davis  
 Tharp, Samuel Eugene Lemoore  
 1 LS PreM-2248 Telegraph av Bkly 9011  
 Thaxter, Margaret Alice Berkeley Bkly 4164  
 2 LS-8033 Regent at  
 Thelen, Rosemary Alton, Iowa Bkly 6406  
 2 LS-2435 Hilgard av  
 Theodore, Blanche Hermine Coronado  
 '1s LS-440 Geary st, S F  
 Thiedemann, William Joost San Francisco  
 '1 LS-688 Shotwell st, S F Valen 3152  
 Thomas, Althe J. Davenport, Wn. Bkly 6475  
 '1 CE-2222 Bancroft way  
 Thomas, Donald Lohse Oakland Bkly 5770  
 1 LS PreM-2717 Hearst av  
 Thomas, Eleanor Caroline Ukiah  
 2 LS-1610 Arch st Bkly 5990W  
 Thomas, Elsie Lucile Oakland Bkly 5116J  
 3 LS PreL-1036 Oxford st  
 Thomas, Hugh Wadsworth Berkeley  
 '1 LS-2261 Shattuck av Bkly 1229W  
 Thomas, James Rolla Salt Lake City, Utah  
 4 LS-2511 Channing way Bkly 8121J  
 Thomas, Jessie Elisabeth Gilroy Bkly 808  
 4 LS-2505 College av  
 \*Thomas, Mildred Frances San Francisco West 7717  
 4 LS-1887 Broderick st, S F  
 Thomas, Samuel Alvin Alpaugh Bkly 5759W  
 1 CE-1708 Walnut st  
 Thomas, William Ferlys Santa Cruz Bkly 4440  
 1 Min-2418 College av  
 Thomas, William H. Berkeley Bkly 78  
 3 Com-2400 Bancroft way  
 Thomas, William Paul Berkeley Bkly 2185  
 2 LS PreL-1012 Lassen st  
 Thomas, Zita Gertrude Fresno  
 '3 LS-1809 Euclid av  
 Thometz, James Anthony Los Angeles Bkly 2035J  
 '1 Min-2221 Atherton st  
 Thompson, Ada Gertrude Lindsay Bkly 493  
 3 LS-1739 Euclid av  
 Thompson, Claude Verner Orland  
 4 LS and 1 Med-2614 Dwight way Bkly 1276  
 Thompson, Elmer Oluf Berkeley Bkly 6087J  
 3 Mec-2210 Chapel st  
 Thompson, Ethel Rebecca San Francisco Sutr 2882  
 '1 LS-957 Mission st, S F  
 Thompson, Frances Berkeley Bkly 5011J  
 2 LS-2925 Regent st  
 Thompson, Harold Perry El Centro Bkly 2641  
 2 LS-2438 Warring st  
 Thompson, Harry Omer Scott Esparto Bkly 1053  
 4 Agr-2228 Dana st  
 Thompson, Janet San Francisco Bkly 8528  
 2 LS-2709 Channing way  
 Thompson, Mildred Bentley Oakland Mer 4490  
 4 LS-511 Haddon rd, O  
 Thompson, Roland Louis Burbank  
 '2 LS PreM-2711 Durant av  
 Thompson, Russell Sidney Redding  
 '2 Mec-434 Alcatraz av, O Pied 8754  
 Thoms, Hazel Ruth Oakland Mer 1722  
 '3 LS-2029 Seventh av, O

- Thomson, Louise Hopewell Modesto  
 2 LS-2328 Bowditch st Bkly 6201J  
 Thomson, Ruby Cornelia Berkeley  
 4 LS-2269 Summer st Bkly 4438J  
 Thorley, Hilda Berkeley  
 1s LS-2237 Vine st Bkly 7493J  
 Thornburg, Florence Alma San Francisco  
 2 LS-620 Alvarado st, S F Man 3810  
 Thornburg, Max Weston Los Angeles  
 3 CE-1726 Euclid av Bkly 6706  
 \*Thornburg, Ruth Elizabeth Santa Maria  
 4 LS-2710 Channing way Bkly 9520  
 Thornburgh, Leon Laselle Santa Barbara  
 1 LS PreL-2200 Piedmont av Bkly 6760  
 Thornton, Florence Elizabeth Oakland  
 2 LS-2106 Ninth av, O Mer 5190  
 Thoroman, Marie Louise Portland, Ore.  
 1 LS-2428 Channing way Bkly 6408  
 Thwing, Myrtle Miltons Oakland  
 3 LS-2225 Eleventh av, O Mer 3380  
 Thwing, Penelope Helen Oakland  
 3 LS-2225 Eleventh av, O Mer 3380  
 Tickell, Bernice Lea Berkeley  
 1s Agr-2456 Webster st  
 Tien, Chii China  
 1s LS-929 Arlington av Bkly 2624  
 Tiernan, Elvira Maude Alameda  
 13 LS-1529 St. Charles st, A Ala 405  
 Tietjen, Clara Meta San Francisco  
 3 LS-3894 Eighteenth st, S F  
 Mrkt 9250  
 Tietzen, James Herbert Berkeley  
 4 LS-2840 Claremont blvd Bkly 59  
 Tiffany, Edwin Preston Hollister  
 1 Agr-2411 Durant av Bkly 474  
 Tiffany, Frank Gile Hollister  
 4 Agr-2411 Durant av Bkly 474  
 Tiffany, Marion Elizabeth Hollister  
 3 LS-2542 Durant av Bkly 3873  
 Tilden, Charles Lee, Jr. Alameda  
 3 LS-3330 Telegraph av Bkly 4429  
 Tillev, Carolyn Max Arcata  
 2 LS-2711 Virginia st Bkly 5296J  
 Tillman, Hilman Edgar W. O. Oakland  
 11 LS PreA-2012 Twenty-second av, O  
 Frwl 1946W  
 Tilton, Marion San Bernardino  
 2 LS-2542 Durant av Bkly 3873  
 Timmons, Glen Flint Eureka  
 12 Mec-2314 Channing way Bkly 6041W  
 Tinker, Verva Alice Goleta  
 3 LS-2526 Hilgard av Bkly 1441  
 Tinkham, Julia Dart Berkeley  
 13 LS-2619 Hillegass av Bkly 4200  
 Tinning, Winifred Stanley Martinez  
 3 LS-2728 Durant av Bkly 9531  
 Tippet, Joseph Ellsworth Baltimore, Md.  
 3 Agr-37 Euclid apts Bkly 6058W  
 Tipton, Kenneth Eugene Los Angeles  
 11 Agr-1730 La Loma av Bkly 8716
- Titcomb, Bryant Bovee Concord  
 11 LS-Concord Concord 113 F11  
 Tobias, Myron Alder Porterville  
 2 LS-2500 College av Bkly 5941  
 Tocher, William John Oakland  
 4 Agr-2605 Durant av Bkly 552  
 Toda, Lloyd Sakichi Oakland  
 3 Com-1711 Telegraph av, O Oakd 5258  
 Todd, Gifford Gray Los Angeles  
 1 CE-1730 La Loma av Bkly 8716  
 Todd, Stedman Fiske Piedmont  
 2 Mec-415 Hillside court, P Pied 6898W  
 Todd, Theodosia Piedmont  
 13 Agr-415 Hillside court, P Pied 6898W  
 Todhunter, Jessie Florence Vancouver, B. C.  
 4 LS-2531 Ridge rd Bkly 6485  
 Todresic, Leo Stockton  
 2 LS PreM-2231 Dana st Bkly 6391J  
 Togasaki, Kazue San Francisco  
 1 LS PreM-2228 Union st  
 Togasaki, Kivoshi San Francisco  
 2 Com-773 University av Bkly 993  
 Tolerton, Ray Elmer Dinuba  
 1 Mec-2228 Dana st Bkly 1053  
 Tom, Frank Yuk Sam Canton, China  
 13 LS-2504 Regent st Bkly 3893J  
 Tommasini, Maria Teresa San Francisco  
 12 LS-568 Greenwich st, S F Krny 2183  
 Tompkins, Avery Berkeley  
 4 LS (H Pol Sci)-2526 Durant av  
 Bkly 462  
 Tompkins, Helen Arnoldette Sunnyvale  
 1 LS-2332 Haste st Bkly 149W  
 Tonkin, Chester Benson San Jose  
 4 Com-2426 Virginia st Bkly 3472  
 Tooler, Homer Harold New Hampton, Ia.  
 4 Com (H Econ)-3117 Lewiston av  
 Pied 4195  
 Toomey, Irving Francis Fresno  
 1 Mec-2426 Virginia st Bkly 3472  
 Topel, Max Leo Bozeman, Mont.  
 2 Com-2520 Virginia st Bkly 2608  
 Torrano, Michael Angelo Oakland  
 2 LS PreM-717 Fifth st, O  
 Tottenham, Muriel Loftus Los Angeles  
 2 LS-2709 Channing way Bkly 8528  
 Towle, Alice Sheridan Fort Churchill, Nev.  
 3 LS-2439 Channing way Bkly 4648  
 Towle, Katherine Amelia Berkeley  
 1 LS-2731 Webster st Bkly 978W  
 Towner, Leonard Wimberley Long Beach  
 3 Mec-2218 Dana st Bkly 3267  
 Townsend, Hope Edith Oakland  
 4 LS-4822 Foothill blvd, O Frwl 2134  
 Townsend, Marian Stephens Great Falls, Mont.  
 1 LS-2520 Durant av Bkly 1675  
 Tove, Margaret Adeline Alameda  
 4 LS (H Econ)-3210 Encinal av, A  
 Ala 2303J

- Tracie, Ross Gordon Redding  
3 Min-2528 Dwight way Bkly 1027J
- Tracy, Dorothy Wilmerding Sacramento  
3 LS-2630 Haste st Bkly 7153W
- Tracy, Ray Perry Los Angeles  
2 LS PreA-2601 Durant av Bkly 23
- Trask, Elwood Ellsworth Los Angeles  
4 Agr-2627 Ridge rd Bkly 2541
- Tredway, Frederick Bakersfield  
2 LS-2625 Hearst av Bkly 7614
- Trefts, Harry Haws Newman  
1 Mec-2426 Virginia st Bkly 3472
- Trent, Elda Odessa Laton  
3 LS-2226 Chapel st Bkly 879
- Trescher, Ferdinand George Berkeley  
1 Min-1831 Blake st
- Trimble, Harold Guyon Oakland  
2 Med-386 Oakland av, O Lksd 3877
- Trotter, Robert Thackwell  
Walsh, Alberta, Canada  
4s LS-2826 Garber st Bkly 3058
- Trowbridge, Georgia Shaw San Francisco  
13 LS-125 Commonwealth av, S F Papt 3559
- Troxell, George Earl Los Angeles  
3 CE-2618 Durant av Bkly 8858
- Trumbiv, Ethel Gladys Santa Cruz  
3 LS-2542 Durant av Bkly 3873
- Trumbo, Sara Jane Berkeley  
12a LS-Claremont Hotel Bkly 9300
- Tachumy, George Jacob Visalia  
2 Com-2620 Bancroft way Bkly 888
- Taitailios, Panos George Athens, Greece  
1 Agr-2223 Atherton st Bkly 6680
- Tucker, Elmer Hooton Long Beach  
4 Com (H Econ)-1358A Scenic av Bkly 2099
- Tuft, Marjorie Ellen Berkeley  
3 LS-2519 Hillegass av Bkly 477
- Tufts, Alice Elizabeth Los Angeles  
1 LS-2420 College av Bkly 8391
- Tunnicliffe, Lilah Oakland  
1 LS-1727 Castro st, O Oakd 3448
- Tupper, Donald Lewis Fresno  
1 Com-2529 Hearst av Bkly 40
- Tupper, Otis Mitchell, Jr. Oakland  
5 Min-2610 Durant av Bkly 7804
- Turck, Arthur William Anaheim  
3 LS PreL-2200 Piedmont av Bkly 6760
- Turner, Carl Edmund Lodi  
12 LS PreM-2442 Piedmont av Bkly 7291W
- Turner, Fred Pocatello, Idaho  
2 Com-2330 College av Bkly 5098
- Turner, Harold Sumner Santa Cruz  
4 LS-2312 College av
- Turner, Howard Winthrop Berkeley  
3 LS-2517 Benvenue av Bkly 3142W
- Turner, Minerva Elizabeth Oakland  
1 LS PreL-921 Adeline st, O Oakd 8138
- Turner, Pauline Isabel Alameda  
2 LS-1311 Clinton av, A Ala 190
- Turner, Ruth Allison San Francisco  
4 LS (H Econ)-2725 Channing way Bkly 7950
- Turner, Susana Gertrude San Francisco  
2 LS-585 Page st, S F Mkt 9185
- Turner, Warren Mortimer Morgan Hill  
2 Agr-2235 Durant av Bkly 7929
- Turner, William Baker, Jr. San Francisco  
1 LS-1909 Hobart bldg, S F Grfd 1519
- Tuttle, Charles Whitcomb San Francisco  
3 LS-2400 Bancroft way Bkly 78
- Tuttle, Frances Norris Henderson, Ky  
1 Com-2329 Channing way Bkly 5893J
- Tuttle, Marjory Berkeley  
1 LS-2504 Etna st Bkly 6510J
- Tuttle, Susan Davis Berkeley  
2 LS PreL-2834 Garber st Bkly 2323
- Tyler, Frederick Luman Oakland  
1 LS PreL-2330 Telegraph av Bkly 4429
- Tynan, Lester Michael Salinas  
2 Com-2305 Bancroft way Bkly 7461
- Tyrrell, Eleanor Marie San Francisco  
1 LS-1748 Virginia st
- Tyrrell, Emily Edna Pasadena  
3 LS-2420 College av Bkly 8391
- Tyson, Ruth Lillian Tyson, Idaho  
1 LS-891 Thirty-seventh st, O Pied 7908
- Ueland, Edith Roseburg, Ore.  
3 LS-2821 Bancroft way Bkly 1765
- Uhl, Edwin Howard Vacaville  
2 LS-2330 College av Bkly 5098
- Uhl, Kenneth George Visalia  
2 LS PreL-2400 Bancroft way Bkly 78
- Ulrey, Alta Naida King City  
1 LS-1623 LeRoy av Bkly 5516J
- Ulrich, Laura Harriet Janesville, Minn.  
4 LS (H Ger)-1809 Euclid av Bkly 1615
- Umstead, Ruth Juneau, Alaska  
1 LS-1817 Delaware st
- Underhill, Leslie San Francisco  
4 LS-Berkeley Inn Bkly 6370
- Underwood, Anita Lois Berkeley  
1 LS-2041 Francisco st Bkly 5170W
- Underwood, Florence Emma Berkeley  
4 LS (H Anthrop)-2041 Francisco st Bkly 5170W
- Underwood, Marion L. Hollywood  
3 LS-2400 Piedmont av Bkly 5224
- Unna, Sarah San Francisco  
3 LS (H Philos)-1809 Euclid av Bkly 1615
- Updegraff, Ruth Vallejo  
1 LS-1809 Euclid av Bkly 1615
- Updike, Laurence Boyden Los Angeles  
1 Com-2625 Hearst av Bkly 7614
- Uplap, Govind Piraji Seattle, Wn.  
14 Chem-2026 Center st Bkly 2503J

- Upton, George Ray Long Beach  
1 LS PreM-2880 Carlton st Bkly 6211
- Uren, Dorothy May Oakland  
2 LS-1470 Forty-fifth av, O Frvl 2175W
- Urner, Christine Berkeley  
2 LS-1700 Walnut st Bkly 6453
- Urquhart, Ethel Claire Eureka  
1 LS PreL-2215 Fulton st Bkly 6045J
- Ushijima, Saburo Berkeley  
1 LS-2601 College av Bkly 5833
- Utt, Anita Lee San Diego  
18 LS-2427 Durant av
- Utter, Livingston Silver City, N. M.  
1s Min-2209 Eunice st
- Valentine, Julia Sprague South Pasadena  
2 LS-2388 Channing way Bkly 8206
- Valerga, Mildred Oakland  
8 LS (H Engl)-520 Fifty-eighth st, O  
Pied 5129W
- Vanásek, Tomas Stanley Alhambra  
4 LS-2525 Cedar st Bkly 5278
- Van Barneveld, Frances Louise Berkeley  
1 LS PreA-1506 Euclid av Bkly 2810
- Van Brunt, Hildegard Alameda  
2 LS-1724 Alameda av, A Ala 328
- Vance, John Douglas Los Angeles  
2 Agr-2059 University av Bkly 2425
- Van de Grift, Clara Josephine Riverside  
2 LS-2526 Hilgard av Bkly 1441
- Vandegrift, Rolland A. Chico  
14 LS-2684 Bancroft way Bkly 6744
- Vandenburgh, John James Los Angeles  
4 CE-1726 Euclid av Bkly 6706
- Vanderburgh, Bessie May Madera  
4 LS-2485 Haste st Bkly 2279W
- Vandergaw, Ida Oakland  
15s LS-1109 Oak st, O Lksd 4823
- Vandervoort, Ray Los Angeles  
3 LS PreL-3110 Buchanan st, S F  
West 1871
- Van Deventer, Arthur Fayette Redlands  
18 LS-1704 Walnut st Bkly 9388
- Van Dyke, Douglas Los Angeles  
4 LS and 1 Juris-1815 Highland pl  
Bkly 1682
- Van Gastel, Mélanie Marie Dallas, Texas  
2 LS-2517 Benvenue av Bkly 3142W
- Van Haren, Ethel Berkeley  
3 LS-2811 Hilgard av Bkly 7195
- Van Horn, Paul Beverley Oakland  
1 LS-1551 Madison st, O Lksd 1788
- Van Horne, Marie Virginia Hollywood  
1 LS-2627 Hearst av Bkly 4009
- Van Kirk, Vera Louise Orland  
1 LS-1840 Oxford st Bkly 858W
- Van Meter, Juanita McCombs San Francisco  
2 LS-2811 Bancroft way Bkly 214
- Van Nostrand, Randolph Hasbrouck Berkeley  
1 Com-2828 Kelsey st Bkly 6265
- Van Riper, Charles Agustus Berkeley  
2 Agr-2632 Haste st Bkly 7418J
- Van Strum, Kenneth Stevens Berkeley  
1 Com-1740 Walnut st Bkly 7392
- Van Strum, Phillis Clarice Berkeley  
1 LS-1740 Walnut st Bkly 7392
- Van Zanten, Alice Kalamasoo, Mich.  
1 LS-1649 Hayes st, S F
- Vargas, Jesus Torreon, Mexico  
12 Agr-2222 Bancroft way
- Vaughan, Alfred Terry Los Angeles  
12 LS-1640 Euclid av Bkly 4748
- Vaughan, Benjamin Kendrick Alameda  
3 LS-2610 Durant av Bkly 7804
- Vawter, Everett Frank Santa Monica  
14 Agr-2529 College av Bkly 7875W
- Vazeille, Lucille Rouher Berkeley  
3 LS-1414 LeRoy av Bkly 318
- Vecki, Morrell Emeric San Francisco  
8 LS PreM-230 Sixth av, S F Pac 2394
- Vega, Marcos Asunceta Calexico, P. I.  
2 LS PreL-1822 University av
- Venard, Elizabeth Nelson Alameda  
14 LS-1800 Park av, A Ala 3929J
- Ver, Leon Foronda Manila, P. I.  
3 LS-1822 University av
- Vercoe, John Beverley Highland Park, Ill.  
1 Agr-2527 Channing way Bkly 3121W
- Vernon, Ford Harrington San Jacinto  
3 Mec-1522 Walnut st Bkly 6449W
- Vernon, Violet Gridley  
2 LS-2811 McGee av Bkly 6177J
- Verrue, Aline Pasadena  
1 LS-2421 LeConte av Bkly 3062
- Vestal, Amber Red Bluff  
3 LS (H Hist)-3028 Adeline st
- Vincent, Ruth Oakland  
2 LS-193 Montecito av, O Oakd 1253
- Vint, Thomas Chalmers Los Angeles  
2 Agr-Hotel Morse Bkly 8300
- Visel, Ruth Angele Santa Ana  
1 LS-2627 Hearst av
- \*Vogt, George McGill Livermore  
4 LS-1935 Tenth av, O Mer 608
- Volberg, Weston Fay Alameda  
2 LS-2400 Bancroft way Bkly 78
- Vollmer, Sylvia Maria Las Vegas, N. M.  
4 LS-25274 Hearst av Bkly 765
- Von Adelung, Edward-Borland Oakland  
3 LS PreM-407 Twenty-ninth st, O  
Oakd 4651
- Von Detten, Harold Joseph Stockton  
14 LS-2345 College av Bkly 62
- Von Ende, Clara Berkeley  
1s LS-888 Indian Rock av Bkly 5296
- \*von Grueningen, John Paul Altadena  
4 LS-2001 Allston way Bkly 6710
- Voorhees, Marietta Oakland  
4 LS-1580 LeRoy av Bkly 7967J



Vos, Julian	San Francisco	Walker, Mansie Genevra	San Francisco
14 LS PreL-2428 Ellsworth st		21s LS-1000 Hyde st, S F	Frkn 7800
	Bkly 8878	Walker, Nellie Laura	San Francisco
*Vosper, Ernest Edward	San Francisco	22s LS-2512 Russell st	Bkly 2586W
4 LS-40 Twenty-fifth av, S F	Pac 7420	Walker, Pierre Jaqua	Hollywood
Wada, John Toshimasa	Los Angeles	4 LS PreM (H Philos)-2415 Dwight way	Bkly 9025W
23 LS-500 Alice st, O		Walker, Ralph Mervin	Selma
Waddell, Dean Quigley	Los Angeles	4 Agr-2731 Benvenue av	Bkly 2046W
4 LS-1726 Euclid av	Bkly 6706	Walker, Ruth Benjamin	Hollywood
Wadsworth, Madaline Ethel	Los Angeles	3 LS-2415 Dwight way	Bkly 9025W
11 LS-2627 Hearst av	Bkly 3229	Walkmeister, Bertha	Sutter Creek
Wadsworth, Olive Eola	Sutter	3 LS-2519 Hillgass av	Bkly 477
22 LS-2627 Hilgard av	Bkly 1441	Wall, Alice V.	Berkeley
Wagenet, Portia Faye	Oakland	21 LS-1416 Scenic av	Bkly 4150
2 LS-2428 E Twenty-third st, O	Frwl 729	Wall, Earle Raymond	Santa Barbara
	San Jose	3 LS-2500 College av	Bkly 5941
Wagner, Clarence Whitman	San Jose	Wallace, Ethel Marjory	San Jose
2 Agr-2382 College av	Bkly 1134	3 LS-2417 LeConte av	Bkly 5650
Wagner, Henry Francis	San Francisco	Wallace, Geneve	Salt Lake City, Utah
3 LS PreM-2717 Hearst av	Bkly 5770	1 LS-5638 Oak Grove av, O	Pied 5142
Wagner, Karl	Hollywood	Wallace, Jessie Douglas	Berkeley
3 Agr-2418 College av	Bkly 4440	3 LS-1400 LeRoy av	Bkly 4833W
*Wagner, Nada B.	San Diego	Wallace, Leontine	Berkeley
4 LS-1929 Parker st		21 LS-1840 Arch st	Bkly 1078
Wagy, Julian Redman	Bakersfield	Wallace, Moizelle M.	Calexico
1 Agr-2717 Hearst av	Bkly 5770	21 LS-2582 Hillgass av	Bkly 9294J
Walden, Laura Amy	Alameda	Wallace, Rosselet	Berkeley
4 LS-2129 San Antonio av, A	Ala 492	4 LS-1840 Arch st	Bkly 1078
Walder, James Joseph	Los Angeles	Wallace, Sarah Gertrude	Wineville
3 Min-2235 Chapel st	Bkly 8196J	1 LS-2538 Durant av	Bkly 665
Waldo, Florence Grace	Oakland	Wallingford, Annie	Prescott, Ariz.
3 LS-2749 Dwight way	Bkly 204	3 LS (H Math)-1736 Oxford st	Bkly 7247
Waldron, Beessie Gaskill	Oakland	Walrond, Henry Ernest	Fresno
21 Agr-220 Hillside av, P	Pied 585	1 LS-2251 College av	Bkly 9107
Waldron, Marjorie	Piedmont	Walsh, Alma Etta	San Francisco
2 LS-220 Hillside av, P	Pied 585	21s LS-2627 Hearst av	Bkly 3229
Wale, George, Jr.	San Francisco	3 LS PreM-2522 Ridge rd	Bkly 5950
3 LS-2521 Channing way	Bkly 5831	Walsh, Overton Lincoln	Los Angeles
Walker, Annie Titcomb	Paia, T. H.	4 Min-2380 Telegraph av	Bkly 4429
1 LS-1539 Versailles av, A	Ala 2105	Walsh, Winnifred Isabel	Denver, Colo.
Walker, Bernice Sabina	Berkeley	3 LS-Hotel Claremont	Bkly 9800
1 Com-2216 Channing way	Bkly 5631	Walter, Charles Alexander	San Francisco
Walker, Clive Arden	Nimshaw	1 Chem-1297 Church st, S F	Oakland
23 LS PreL-2617 Durant av	Bkly 373	Walter, Helene Katherine	Lknd 1071
Walker, Estella Evangeline	Oakland	2 LS-416 Oakland av, O	Corte Madera
4 LS PreA-836 Fifty-third st, O	Pied 6633W	2 Mec-1641 Oxford st	Bkly 6641J
	San Antonio, Texas	Walters, George Albert	Eureka
Walker, Grace	San Antonio, Texas	1 Com-2434 Piedmont av	Bkly 1858
21 LS-2709 Channing way	Bkly 8528	Walther, Ethel Pearl	Elk Grove
Walker, Irene A.	Berkeley	4 LS (H Zool)-2428 Channing way	Bkly 6408
3 LS (H Latin)-2247 Ashby av	Bkly 8898W	Walton, Frances Esther	Hollywood
	Visalia	3 LS-2727 Regent st	Bkly 8834J
4 LS (H Philos)-2333 Channing way	Bkly 8206	Walton, George Edmund	Oakland
Walker, John Henry	Berkeley	21s CE-5104 Telegraph av, O	Pied 1286
2s LS-2216 Channing way	Bkly 5631	Walton, Wilma	Sanger
Walker, Lois Vivian	Berkeley	2 LS-2821 Bancroft way	Bkly 1765
1 LS-2731 Benvenue av	Bkly 2046W		
Walker, Loyd Harold	Oakland		
1 Com-836 Fifty-third st, O	Pied 6633W		

Waltz, Harold Starr	Berkeley	Warren, Stafford Leak	Hayward
15 Agr-2701 Hearst av	Bkly 2421	3 LS PreM (H Biochem)-2432 College av	Bkly 6102J
Waltz, Henry Washington, Jr.	Sonoma	Warrum, Noble H	Salt Lake City, Utah
12 LS-2141 Berkeley way	Bkly 4270	3 LS PreM-2345 College av	Bkly 62
Waltz, Marion Cumie	Sonoma	Wasem, Lena Eleanor	Long Beach
18 LS-2141 Berkeley way	Bkly 4270	1 LS-Berkeley Inn	Bkly 6370
Wand, Preston Beale	San Francisco	Wasem, Marie	Long Beach
2 Agr-2421 Virginia st	Bkly 8249	3 LS-Berkeley Inn	Bkly 6370
Wank, Melville Emanuel	San Francisco	Washburn, Alonzo Earl	Fresno
2 LS-711 Twelfth av, S F	Pac 8345	2 LS PreL-2418 College av	Bkly 4440
Wann, Imra Margaret	Berkeley	Washburn, Beatrice	Minneapolis, Minn.
4 LS and 1 Juris-2600 Warring st	Bkly 6407W	1 LS-2732 Channing way	
Ward, Agnes Dolores	Vallejo	Washington, Sarah Elizabeth	Madera
2 LS PreM-2702 Fulton st	Bkly 1867J	3 LS-2485 Haste st	Bkly 2279W
Ward, Benjamin Franklin	Los Angeles	Wasson, James Alexander	King City
12 CE-2520 Virginia st	Bkly 2608	2 LS-2380 College av	Bkly 5098
Ward, Earl Stanley	Oroville	Waste, William Ewing	Berkeley
12 LS PreL-2630 Bancroft way	Bkly 8469W	2 LS PreL-2222 Durant av	Bkly 1191
Ward, Eugene Carl	San Bernardino	Waterhouse, Dorothy Jean	Sacramento
2 LS PreL-2228 Dana st	Bkly 1058	3 LS (H Gr Art)-2400 Piedmont av	Bkly 5224
Ward, Frances	Modesto	Waterhouse, Hascall Freeman	Oakland
2 LS-2429 Channing way	Bkly 4648	2 Chem-374 Jayne st, O	Oakd 3065
Ward, John Shirley	Los Angeles	Waterhouse, William Glenn	Pasadena
2 LS-2601 Channing way	Bkly 5904	4 Agr-University Farm, Davis	
Ward, Leonard Risdon	Kerman	Waterman, Francis Bentley	Fresno
2 Agr-2632 Haste st	Bkly 7418J	2 LS-Oxford apts	Bkly 2385W
Ward, Marjorie	Santa Cruz	Waters, Marve Eoline	Santa Ana
1 LS-2922 Derby st	Bkly 3262J	2 LS-2438 Haste st	Bkly 3053W
Ward, Percy Harold	Berkeley	Waters, Opal Selby	New York, N.Y.
2 LS PreA-1811 Delaware st	Bkly 1266	3 Agr-2647 Durant av	Bkly 102
Ward, Robertson	Los Angeles	Waters, Roy Norton	San Francisco
2 LS PreM-2601 Channing way	Bkly 5904	4 Agr-University Farm, Davis	
Warden, Marine Ruffner	Lyons, Kans.	Watkins, Clifford	Ventura
13 LS-2223 Atherton st	Bkly 6680	11 Chem-2126A Dwight way	Bkly 8915W
Ware, Ruth Isabel	Long Beach	Watkins, Edna	Los Angeles
2 LS-2709 Channing way	Bkly 8528	2 LS-2500 Bancroft way	Bkly 1848
Warmoth, Grace Belle	San Francisco	Watkins, Harry Edgar	San Bernardino
2 Com-3812 Army st, S F	Man 4047	3 LS-1611 Edith st	
Warne, Joseph Ray	Holtville	Watkins, John Latimer	Long Beach
1 LS-6450 Benvenue av, O	Pied 3182J	2 LS-2500 Bancroft way	Bkly 1848
Warne, Merrill Lionel	Holtville	Watson, Allan Raymond	Eureka
2 Agr-2438 Warring st	Bkly 2641	3 LS PreM-2627 Ridge rd	Bkly 2541
Warner, Harriet Janet	Twin Falls, Idaho	Watson, Cynthia Atterbury	Modesto
12 LS-2508 Haste st	Bkly 2075	1 LS-2511 Virginia st	Bkly 8829
Warren, Anna Holmes	Berkeley	Watson, Florence Helen	Biggs
12 LS-2542 Durant av	Bkly 3873	1 LS PreA-2630 Channing way	Bkly 2761W
Warren, Arthur Lafayette	Berkeley	Watson, Laura Bernice	Modesto
4 LS (H Anat) and 1 Med-1610 Bonita av	Bkly 68	3 LS (H Engl)-2149 Stuart st	Bkly 1321W
Warren, James Paul	Berkeley	Watson, Lucille	Los Angeles
2 LS PreM-2200 Atherton st	Bkly 4208W	2 LS PreM-2704 Haste st	
Warren, Murrell Charles	Berkeley	Watson, Marion Ann	Biggs
4 Agr-2200 Atherton st	Bkly 4208W	1 LS-2630 Channing way	Bkly 2761W
Warren, Roy Everet	Berkeley	Watts, Charles Arthur	Oakland
4 LS-2646 Dwight way	Bkly 4104	1 LS Mec-2035 Channing way	Bkly 6728
		Way, Roland Archibald	San Marino
		2 LS PreL-2701 Hearst av	Bkly 2421

- Wayland, Clarke Elmer Berkeley  
4 Mec-1533 Henry st Bkly 5997W  
Weatherbee, Wayson Eugene Meredith  
Olas, T. H. Bkly 4139J  
\*2 Agr-1514 Oxford st Coalinga  
Webb, Edward Walter Bkly 2608  
8 Min-2520 Virginia st Ross  
Webber, Howard Edward Bkly 6502  
4 LS-2184 University av Berkeley  
Weber, Henry Reginald Bkly 2923W  
4 Com-1515 Euclid av Berkeley  
Weber, Martha Augusta Bkly 2923W  
4 LS-1515 Euclid av San Diego  
Webster, Agnes Elizabeth Bkly 4698  
2 LS-2210 Atherton st San Diego  
Webster, Dorothea Bkly 4698  
4 LS-2210 Atherton st Berkeley  
Webster, Jackson Lemuel Bkly 7050W  
4 LS-2441 Haste st Hemet  
Wedemeyer, Rupert Golding Bkly 4440  
4 Min-2418 College av Berkeley  
Weed, Marian Helen Bkly 3682  
1 LS-1631 Bancroft way Oakland  
Weeks, Arline Gertrude Pied 8634W  
1 LS-5975 Keith av, O Berkeley  
Weeks, Dorothy Bkly 2709W  
2 LS-2911 Regent st Oakland  
Weeks, John Stewart O Fvrl 423J  
4 CE-2225 Twenty-third av, O Fvrl 423J  
Weeks, Leona Ellen Oakland  
2 LS-5975 Keith av, O Pied 8634W  
Weeks, Winifred M. Hot Springs, Ark.  
4 LS-2520 Durant av Bkly 1675  
Wehe, Helen Berkeley  
2 LS PreL-2421 Carlton st Bkly 2065  
Weidenmuller, Frederick Ernest Pasadena  
3 Agr-University Farm, Davis  
Weidenthal, Milton Bray San Francisco  
4 Agr-2520 Durant av Bkly 1675  
Weihe, Adelaide Carrie Lodi  
3 LS-2519 Hillegass av Bkly 477  
Weile, Linda Fryer Santa Barbara  
4 LS (H Ger)-1815 Walnut st Bkly 3092  
Weishrod, Raymond Henry Los Angeles  
3 LS PreL-2409 Bowditch st Bkly 8460J  
Weise, Joseph Harold Glen Ellen  
3 LS PreL-2519 College av Bkly 2657  
Weiss, Arthur Josiah San Francisco  
2 Mec-606 Post st, S F Pept 400  
Weisser, Alice Mae Oakland  
1 LS-1733 Ninth av, O Mer 4528  
Weitz, Fred William Oakland  
3 Agr-2415 Seventy-eighth av, O  
Weixel, Besse Seattle, Wn.  
4 LS-2715 Channing way Bkly 2437W  
Welch, Florence Woodland  
2 LS-3020 Regent st Bkly 6212J  
Welch, Florence Loretta San Francisco  
\*1 LS-347 Arguello blvd, S F Pac 6560  
Welch, Frances Maude Berkeley  
4 LS (H Econ)-2201 Rose st Bkly 1944  
Welch, Gerald Dixon Berkeley  
2 Com-2201 Rose st Bkly 1944  
Welch, Lucile Woodland  
4 LS (H Engl)-2749 Dwight way Bkly 204  
Welch, Margaret Jane Portland, Ore.  
\*2 LS-2710 Channing way Bkly 9520  
Welch, Percy Robert Berkeley  
2 Com-2201 Rose st Bkly 1944  
Welch, Walter Harold Oakland  
1 LS PreM-359 Santa Clara av, O Lksd 8780  
Wellborn, Olin, III Los Angeles  
3 LS PreL-2400 Bancroft way Bkly 78  
Weller, Marie Ouida Jackson  
\*1 LS-926 Fifty-second st, O  
Wells, Carleton Gross Eureka  
2 Agr-2333 College av Bkly 1722  
Wells, Earl Wilson Selma  
3 LS PreM-2701 Hearst av Bkly 2421  
Wells, Lulu Grace Oakland  
2 LS-1721 Fourth av, O Mer 3768  
Wells, Rose B. Denver, Colo.  
1 LS-2629A Virginia st Berkeley  
Wells, Victor Llewellyn, Jr. Bkly 4894  
2 LS PreL-2827 Stuart st Corcoran  
Welsh, George Leor Bkly 2608  
1 Agr-2520 Virginia st Kennett  
Welsh, William Martin Bkly 1722  
1 Chem-2333 College av Susanville  
Wemple, Olga Bkly 136J  
1 LS-2422 Durant av  
Wentworth, John Edgar Pacific Grove  
1 Agr-1620 Arch st Bkly 3651W  
Wesolo, James Oakland  
2 LS PreL-529 Market st, O Berkeley  
Wessels, Glenn Anthony Bkly 8428  
2 LS PreM-2804 Telegraph av  
Wesson, Frederick Erle San Andreas  
\*4 LS and 1 Juris-2614 Dwight way Bkly 1276  
West, Albert Eugene Bakersfield  
1 Agr-1862 Scenic av  
West, Mary Hoadley San Rafael  
1 LS-2728 Durant av Bkly 9531  
West, Nona A. Modesto  
1 LS-2380 Haste st Bkly 423  
West, Ralph Eric Martinez  
4 LS and 1 Juris-1331 E Twenty-eighth  
st, O Mer 5798  
West, Ruby Kassan Bakersfield  
1 LS-1862 Scenic av Bkly 2099  
West, William David Oakland  
\*5 CE-694 Thirty-third st, O Pied 7257  
West, William Leon Washington, Ga.  
1 LS-2804 Telegraph av Bkly 3428  
Westberg, Edwin L. Alhambra  
\*2 LS PreA-2616 Virginia st Bkly 6716  
Westbrook, Henry, Jr. Alameda  
1 LS-2610 Durant av Bkly 7804

Westenberg, Margaret Bethany	Berkeley	White, Gladys Jesma	Sacramento
1 LS-2811 Benvenue av	Bkly 7692	1s LS-2216 Piedmont av	
Westoby, Gilbert	Oakland	White, Harry Emmanuel	Oakland
21s Chem-678 Twenty-seventh st, O		21 Mec-175 Santa Clara av, O	Oakd 8916
Westwood, Phoebe	Oroville	White, Henry Kirk	Berkeley
2 LS-2429 Channing way	Bkly 4648	4 LS-Thousand Oaks	Bkly 8032
Wetmore, Dorothy Elizabeth	Berkeley	White, Hugh Vernon	Sacramento
4 LS-2323 Hearst av	Bkly 1407	6 LS (H Greek)-2225 College av	
Wetmore, Ruth Ethel	San Francisco		Bkly 7035
1 LS-72 Jordan av, S F	Pac 1857	White, Jack Frederick	San Rafael
Whang, George Chin	Los Angeles	2 LS-2620 Bancroft way	Bkly 888
2 Min-2115 Webster st, S F		White, James Roy	Fresno
Wharton, Anne Radford	Los Angeles	1 Chem-2701 Hearst av	Bkly 2421
4 LS (H Philos)-2725 Channing way		White, Leonard Maxwell	Hollywood
	Bkly 7950	2 LS-1726 Euclid av	Bkly 6706
Wheaton, Donald Whitney	Oakland	White, Martha Ellis	Riverside
3s LS-2416 College av	Bkly 8476J	1 LS-2629 Haste st	Bkly 3287
Wheaton, Dorothy Swannell	San Diego	White, Mildred Matilda	Cloverland, Wn.
3 LS-2417 LeConte av	Bkly 5650	2 LS-2736 Haste st	Bkly 8680
Wheeler, Gretchen Avis	Eugene, Ore.	White, Sara M. Bowen	Santa Cruz
1 LS-2208 Ward st	Bkly 5541	21 LS-2409 Webster st	
Wheeler, Herbert Harvey	Santa Barbara	White, Sherley Allen	Sacramento
4 Chem-2600 Bancroft way	Bkly 6819	1 LS-2216 Piedmont av	
Wheeler, Howard	Los Angeles	White, William Glenn	Winton
3 Agr-University Farm, Davis		1 Agr-2530 Dwight way	
Wheeler, John Dorsey	Fresno	Whitehurst, Leslie	Oakland
2 Agr-835 Hyde st, S F	Papt 3036	21s LS-631 Walla Vista av, O	Lkad 3564
Wheeler, McKinley	Long Beach	Whitehurst, Raymond Furman	Oakland
1 Agr-2330 Carlton st	Bkly 6211	1s Com-631 Walla Vista av, O	Lkad 3564
Wheeler, Mary Ruth	Oceano	Whitesides, Mildred Hale	Texarkana, Ark.
4 LS-2328 Bowditch st	Bkly 6201J	1 LS-2542 Durant av	Bkly 3873
Wheeler, Norma	Los Angeles	Whiting, Helen Elizabeth	Madera
4 LS-Hotel Shattuck	Bkly 7300	2 LS-2505 College av	Bkly 2279W
Wheeler, Pauline Gertrude	Eugene, Ore.	Whitmore, Charles Wilson	Ceres
1 LS-2208 Ward st	Bkly 5541	2 LS PreL-2601 Durant av	Bkly 23
Wheeler, Ray B	San Jose	Whitmore, Welles, Jr.	Oakland
3 Com-2418 College av	Bkly 4440	2 Mec-405 VanBuren av, O	Oakd 7185
Whisler, Helen Naomi	San Pablo	Whitney, Jean Marian	Healdsburg
1 LS-San Pablo		2 LS-2516 LeConte av	Bkly 3235J
Whitaker, Carolene Camilla	Vallejo	Whittell, Florence Emma	Los Angeles
2 LS-2314 Hilgard av	Bkly 4033J	3 LS-2630 Bancroft way	Bkly 8469W
Whitaker, Gerald	Anaheim	Whitthorne, Harry Sherman	San Francisco
1 Com-2211 Fulton st	Bkly 6045W	3 LS PreL-2500 College av	Bkly 5941
Whitaker, Rachel Gerry E. Las Vegas, N.M.		Whittlesey, Beatrice Helene	Los Angeles
2 LS-2335 Dwight way	Bkly 3086	2 LS-1550 La Loma av	Bkly 7516
Whitcomb, Earl Franklyn	Glendora	Whittlesey, Harold Cruver	Los Angeles
3 Mec-2200 Atherton st	Bkly 4208W	2 Min-1550 La Loma av	Bkly 7516
White, Carroll Frank	Dinuba	Whittlesey, Pauline Patten	Berkeley
21 Mec-3008 Telegraph av	Bkly 7433	1 LS-2249 Piedmont av	Bkly 7897
White, Claudius Nelson	San Jose	Whitton, Gertrude Nancy	Berkeley
4 Com (H Econ)-2311 Webster st		4 LS-1933 Yolo av	
White, Edward Irving	Fresno	*Whitton, John Boardman	Oakland
1 LS-2500 College av	Bkly 5941	5 LS and 2 Juris-2001 Allston way	
White, Essie Tobina	Broderick		Bkly 6710
3 LS-2521 Dwight way	Bkly 6646W	Whitton, Katharine	Berkeley
White, George Leonard	Berkeley	3 LS-40 El Camino Real	Bkly 7867J
4 LS and 1 Juris-2200 Piedmont av	Pied 6760	Whitton, Loyal Walter	Yountville
		3 Mec-2304 Telegraph av	Bkly 3428
White, Gladys Amack	Oakland	Whitworth, George Frederick	Berkeley
21 LS-675 Poirier st, O	Pied 6630W	2 Mec-2318 Telegraph av	Bkly 5964

- Wibel, Margaret San Jose  
 \*2 LS-2702 Dwight way  
 Wickersham, Harry Horton San Francisco  
 2 CE-149 San Carlos av, S F Park 8397  
 Wickstrom, Agnes Myrtle Folsom  
 1 LS-2327 Bancroft way Bkly 5816  
 Wickstrom, Harold Ward San Francisco  
 1 Mec-1902 Green st, S F West 2775  
 Wieslander, Leslie Oakland  
 1 Com-4102 Gilbert st, O Pied 2568W  
 Wight, Gordon A. Oakland  
 \*1 Agr-302 Euclid av, O Oakd 7798  
 Wight, Mary Roberta San Diego  
 2 LS-2721 Haste st Bkly 8800  
 Wightman, George Edward San Rafael  
 1 LS PreL-929 Chestnut st, O Oakd 1238  
 Wigmore, John Los Angeles  
 1 Mec-1815 Highland pl Bkly 1682  
 Wikander, Sigma May Honolulu, T. H.  
 1 LS-664 Tenth st, R Rechd 178  
 Wilcox, Adrian Clyde Santa Clara  
 3 LS-2427 Channing way Bkly 7325  
 Wilcox, Frank Howard Pomona  
 4 LS (H EngL)-2436 Channing way Bkly 8286W  
 Wilcox, Harry Burton Los Angeles  
 \*2 LS-111½ Panoramic way Bkly 6566W  
 Wilde, Arthur Wallace Seattle, Wn.  
 1 Com-1815 Highland pl Bkly 1682  
 Wileman, Charles Elvin Dinuba  
 2 LS-927 Shattuck av Bkly 8645J  
 Wiles, Gloyd Marlin Hanford  
 \*1 LS PreM-2240 Ward st Bkly 4874  
 Wiley, Harry Ronald Porterville  
 \*4 LS PreL-2620 Bancroft way Bkly 888  
 Wiley, Marian Ethel Porterville  
 2 Com-2713 Haste st Bkly 2148  
 Wiley, Richard Sifax Providence, R.I.  
 3 LS PreM-1340 Shattuck av  
 Wilkes, Aliene Morris Berkeley  
 \*1 LS-831 Delaware st Bkly 7324  
 Wilkie, Mary Emily San Francisco  
 6 LS-2509 Cedar st Bkly 6116  
 Wilkins, James Hepburn San Rafael  
 1 Min-2222 Bancroft way Bkly 6415  
 Wilkins, Paul California Ripon  
 1 LS PreL-2407 Bowditch st Bkly 1241J  
 Wilkinson, Pauline Berkeley  
 1 LS-2525 Benvenue av Bkly 5213J  
 Wilkinson, Walter Scott, Jr. Blythe  
 4 Agr-University Farm, Davis  
 Willard, Imogene Dolores Red Bluff  
 3 LS (H Chem)-1803 Euclid av Bkly 2971  
 Williams, Adrienne San Francisco  
 1 LS-2749 Dwight way Bkly 204  
 Williams, Amelia Newbury San Diego  
 \*1 LS-2721 Haste st Bkly 8800  
 Williams, Clyde Roscoe Vallejo  
 3 Agr-2218 Union st Bkly 2967  
 Williams, Desmond Helene Seattle, Wash.  
 \*1 LS-2430 Bancroft way  
 \*Williams, Donald Clark Sacramento  
 4 LS and 1 Juris-2630 Bancroft way Bkly 8469W  
 Williams, Dorothy Helen Santa Barbara  
 1 LS-2710 Channing way Bkly 9520  
 Williams, Edna Margaret San Diego  
 3 LS-2525 College av Bkly 5596W  
 Williams, Edward Albert Fresno  
 1 LS PreL-2601 Channing way Bkly 5904  
 Williams, Faith Evelyn Los Gatos  
 1 LS-2542 Durant av Bkly 8878  
 Williams, Flora Dell Berkeley  
 \*3 LS-1811 Rose st  
 Williams, Frances Foster Oakland  
 \*1a LS-317 Hanover av, O Mer 3892  
 Williams, Fred Percival San Francisco  
 2 LS-2601 Durant av Bkly 23  
 Williams, George Anderson Berkeley  
 \*4 LS and \*1 Med-1980 University av  
 Williams, Harold Edward Berkeley  
 2 Min-1422 Arch st Bkly 487  
 Williams, Hazel Mar Berkeley  
 \*1 LS-1811 Rose st  
 Williams, Helen Edith San Diego  
 \*1 LS-2284 Atherton st  
 Williams, Higbee Berkeley  
 1 LS PreL-1980 University av  
 Williams, Joshua Redlands  
 4 LS-2414 Dana st Bkly 4035  
 Williams, Lawrence Franklin Crescent City  
 4 LS PreA-1901 Grove st  
 Williams, Lemoine Elbie Berkeley  
 4 Agr-1980 University av  
 Williams, LeRoy Emery Berkeley  
 3 LS-1811 Rose st  
 Williams, Lesley Edith Twin Falls, Idaho  
 3 Com-2508 Haste st Bkly 2075  
 Williams, Russell Larimer Santa Barbara  
 2 Com-2318 Telegraph av Bkly 5964  
 Williams, Stephen Nevada City  
 \*2 LS PreL-2006½ Shattuck av  
 Williams, Thomas Lawrence Berkeley  
 4 LS-Treehaven apts Bkly 8639W  
 Williams, Vida Berkeley  
 \*2 LS-2731 Regent st Bkly 8966W  
 Williams, Wanda Dempsey Oakland  
 \*1 LS-1016 Twenty-fourth st, O Oakd 1887  
 Williams, Wilma Cathryn Paso Robles  
 1 LS-2520 Bancroft way Bkly 5062J  
 Williamson, Olga Berkeley  
 1 LS-2601 Parker st Bkly 1102  
 Willis, Klotho McGee Washington, D. C.  
 \*3a LS-58 Liberty st, S F Man 693  
 Willis, Sybil Rideout Berkeley  
 \*1 LS-2323 College av Bkly 3590W  
 Willoughby, Alfred Brunson Berkeley  
 1 LS-2960 Piedmont av Bkly 4459

Wills, Gifford Gustav	San Francisco	Winningsstad, Olaf Phillips	Berkeley
4 CE-1336 Eleventh av, S F		8 Mec-2830 Garber st	Bkly 1119W
Willson, Ethel Ramona	Calistoga	Winstead, John Shelby	Napa
3 LS (H Hist)-1431 Spruce st		2 Com-2600 Durant av	Bkly 2593
	Bkly 3950W	Winstead, Thomas Carroll	Napa
Willson, Grace Nicholl	Oakland	3 LS-2600 Durant av	Bkly 2593
1 LS-238 E Sixteenth st, O	Mer 2678	Winston, John Bandini, Jr.	Los Angeles
Willson, Jack Sloan	Hollywood	'4 LS-2519 Ridge rd	Bkly 1416
3 Agr-University Farm, Davis		Winter, Gilbert Hosmer	Santa Rosa
Willson, Pearl Emily	San Jose	4 Com-1742 Bushnell pl	Bkly 3407
3 LS-2702 Virginia st	Bkly 6789	Winters, Alma James	Montpelier, Idaho
Wilson, Alice Muirhead	Berkeley	1 LS-1705 Walnut st	Bkly 4276W
1 LS-2201 Eunice st	Bkly 6365W	Wirt, Helen Lucile	Antioch
Wilson, Arthur Reihl	Oroville	3 LS-2713 Haste st	Bkly 2148
3 LS-2115A Durant av	Bkly 7073J	Wise, Anna Roberts	San Francisco
Wilson, Clifford Oulton	Etna Mills	'1s LS-Hotel Ormond, S F	Frkn 845
2 Chem-2628 Durant av	Bkly 4772	Wise, Newton Edward	San Francisco
Wilson, Edgar Forbes	San Francisco	'1 LS PreM-2419 Folsom st, S F	Valen 628
4 LS-2717 Hearst av	Bkly 5770		
Wilson, Eva May	Ventura	Wisecarver, Newton Brice	Geyserville
3 LS-1707 Euclid av	Bkly 4072	2 Agr-2427 Channing way	Bkly 7325
Wilson, Flora Margaret	Santa Cruz	Wishart, Dorothy Vernon	Oakland
4 LS (H Hist)-2435 Hilgard av		'1 LS PreA-3137 Telegraph av, O	Pied 640W
	Bkly 6406	Wisser, Edward Hollister	San Francisco
Wilson, Frances Marguerite	Berkeley	4 Min-1935 Yolo av	Bkly 6360
'2s LS-1325 Arch st	Bkly 5659J	Witherspoon, Evelyn Butler	Butte, Mont.
Wilson, Gladys Monica	Alameda	1 LS-2710 Channing way	Bkly 9520
'1 LS-1331 St. Charles st, A	Ala 4157	Witt, Vera Anita	Benicia
Wilson, Lloyd Richards	Inglewood	1 LS-2536 College av	Bkly 1974
2 Com-2600 Durant av	Bkly 2593	Witten, Beryl Lewis	Crows Landing
Wilson, Loretta Fredericka	San Francisco	'3 LS-2508 Haste st	Bkly 2075
3 LS-2524 LeConte av	Bkly 2531	Witter, Elizabeth Louise	Berkeley
Wilson, Margaret Celia	Twin Falls, Idaho	4 LS-2301 Durant av	Bkly 130
4 LS-2542 Durant av	Bkly 3873	Witter, Esther Louise	Oakland
Wilson, May Olive	Dixon	4 LS (H Pol Sci)-2725 Channing way	Bkly 7950
2 LS-2327 Bancroft way	Bkly 5816		
Wilson, Mildred Elna	Oakland	Witter, Willis Guy	Berkeley
3 LS-2906 Telegraph av	Bkly 406	4 LS and 1 Juris-2301 Durant av	Bkly 130
Wilson, Nellie Vance	Santa Ana	Wittmeyer, Minnie Velna Yeaw	Berkeley
2 LS-1924 Channing way	Bkly 4210	'1 LS-2430 Channing way	
Wilson, Onni Albin	San Francisco	Wixom, Rupert E. Lee	Murray, Utah
'3 LS PreM-444 Arkansas st, S F	Man 8930	2 Agr-2219 Ashby av	Bkly 1063
Wilson, Stephen Norman	Placerville	Woehr, Charles Dorman	Redlands
3 Agr-2330 College av	Bkly 5098	4 LS PreL-2101 Telegraph av, O	Lksd 1700
Wilson, Thomas Richard	El Centro		
1 LS-2534 Bancroft way	Bkly 2596J	Woehr, Elsie Mae	Pomona
Wilson, Thornton	Nordhoff	2 LS-2505 College av	Bkly 808
4 LS and 1 Juris-1325 Arch st		Woessner, Charles Herman	Los Angeles
	Bkly 5956J	3 Chem-2428 College av	Bkly 4748
Wilson, Warren Scott	San Francisco	Woland, Clair Emanuel	Oakland
4 LS and 1 Juris-2642 Bancroft way		'2 LS PreL-2200 Piedmont av	Bkly 6760
	Bkly 653	Wolfe, Lola Frances	Turlock
Winder, Beatrice Vesta	Berkeley	'1 LS-2611 Hillegass av	
3 LS-2749 Dwight way	Bkly 204	Wolfe, Milton E.	Los Angeles
Windham, Gladys Mary	Pasadena	3 Agr-2428 College av	Bkly 4748
3 LS-2421 LeConte av	Bkly 3062	Wolff, Aline Claire	Portland, Ore.
Windmüller, Louis Leonard	Sacramento	2 LS-1809 Euclid av	Bkly 1615
8 LS PreL-2409 Bowditch st	Bkly 3460J	Wollenberg, Helen	San Francisco
Wing, Winchester Paddock	Palo Alto	2 LS-236 Ninth av, S F	Pao 6832
'4 Agr-2511 Durant av	Bkly 6081		

- Wollenberg, Irma San Francisco  
8 LS-4613 California st, S F Pac 2499
- Wollitz, Alfred Ernest Oakland  
\*1 Mec-1935 Webster st, O Oakd 284
- Wolongiewicz, Frank Ignatius San Francisco  
\*3 LS PreM-2332 College av
- Wolper, Mordecai Kishineff, Russia  
2 Mec-5124 Bond st, O Frvl 71J
- Wong, Bing Chin Sacramento  
4 LS (H Philos)-1917 Addison st  
Bkly 5779W
- Wong, Kim Chee Oakland  
1 CE-229 Seventh st, O
- Wood, Annabelle Muriel Berkeley  
2 LS-1941 Berryman st Bkly 5301W
- Wood, Arthur Tulare  
4 Agr-2427 Channing way
- Wood, Frank Tulare  
4 Agr-Oxford apts Bkly 2385W
- Wood, George Joseph Tulare  
2 LS PreM-Oxford apts Bkly 2385W
- Wood, Justin Adrian Santa Cruz  
2 Chem-2785 Hillegass av Bkly 1720J
- Wood, Margaret Los Angeles  
1 LS-2537 Benvenue av Bkly 8142J
- Wood, Margaret Alicia San Francisco  
1 LS-1715 LeRoy av Bkly 2351
- Wood, Melba Los Angeles  
1 LS-2537 Benvenue av Bkly 8142J
- Wood, Milo Nelson King City  
4 Agr-2248 Telegraph av Bkly 9011
- Wood, Muriel Berkeley  
2 LS-2609 Milvia st Bkly 7138J
- Wood, Pauline Modesto  
2 LS-2714 Ridge rd Bkly 9098
- Wood, Ruth Atwater San Jose  
4 LS-1803 Euclid av Bkly 2971
- Wood, Trueman Andrew Berenda  
\*4 Mec-2254 Fulton st Bkly 2097
- Wood, Virginia Los Angeles  
1 LS-2537 Benvenue av Bkly 8142J
- Woodcock, Alice Harris Eureka  
1 LS-1651 Market st, S F Mkt 296
- Woodhouse, Edwin Pasadena  
2 Agr-2509 Regent st Bkly 3606J
- Woodhouse, Elizabeth Deshler Pasadena  
2 LS-2533 Durant av Bkly 665
- Woodin, Hilda Benicia Berkeley  
4 LS-2516 Fulton st Bkly 7170
- Woodruff, Curtis Lewin Smith River  
4 Agr-University Farm, Davis
- Woodruff, Edward Tyson Redlands  
1 LS PreA-2531 Channing way  
Bkly 7068W
- Woodruff, Herbert M. Smith River  
8 Agr-2316 Bowditch st Bkly 6504
- Woods, Basil Kirkman Los Angeles  
4 LS-2646 Dwight way Bkly 4104
- Woods, Beulah Beatrice Salem, Ore.  
8 LS PreA-1911 Hopkins st Bkly 6318W
- Woods, Leonard Berkeley  
\*4 LS-3038 Hillegass av Bkly 1326J
- Woods, Norma Beatrice Hayward  
1 LS-2627 Hearst av Bkly 4009
- Woods, Paul Horace Santa Rosa  
8 Mec-2314 Dwight way Bkly 7654W
- Woodworth, Harold Evans Berkeley  
4 Agr-2237 Carlton st Bkly 2154
- Woodworth, Lawrence Ariel Berkeley  
4 Min-2237 Carlton st Bkly 2154
- Woodworth, Wethered Berkeley  
\*4 LS and 1 Juris-2329 Prospect st  
Bkly 1612W
- Woolsev, Catherine Helene Berkeley  
3 LS-2709 Channing way Bkly 8528
- Works, Pierce Los Angeles  
3 LS-2601 Channing way Bkly 5904
- Wormer, Helena F. San Francisco  
2 LS-980 Bush st, S F Papt 4661
- Worthington, Ethel Marie San Francisco  
1 LS-Bancroft apts Bkly 1098J
- Wraith, Lawrence Everett Woodland  
1 Agr-1711 Euclid av Bkly 9806
- Wraith, William Harry Woodland  
2 Com-1711 Euclid av Bkly 9806
- Wright, Carol Willard Oakland  
4 Agr-2627 Ridge rd Bkly 8247
- Wright, Elwood Wellman Berkeley  
4 Agr-2626 Warring st Bkly 4586
- Wright, Homer Wilfred Berkeley  
\*4 LS and 1 Juris-2137 Berkeley way  
Bkly 112W
- Wright, Jean Berkeley  
3 LS-2626 Warring st Bkly 4586
- Wright, Jonathan Garrard Berkeley  
1 CE-2030 Shattuck av Bkly 158
- Wright, Mark Hatfield Independence  
\*3 CE-2250 Fulton st Bkly 8284
- Wright, May Palmer Los Angeles  
2 LS-2606 Durant av Bkly 6681
- Wright, Milton Abourn Arcata  
4 Com-2137 Berkeley way Bkly 112W
- Wright, Nelba Dorothy Gladys Redding  
3 LS-2821 Bancroft way Bkly 1765
- Wright, Quince Lorenzo Tennessee, Ind.  
3 LS PreL-1711 Euclid av Bkly 9806
- Wright, Robert Francis San Francisco  
\*2a LS-2125 Cedar st Bkly 2695
- Wright, Rose Bernice Sacramento  
3 LS-2225 College av Bkly 7085
- Wright, Ross Jackson Pomona  
2 LS-2616 Virginia st Bkly 6716
- Wright, Whitney Braymer Camden, N.J.  
4 Min-1070 Spruce st Bkly 5313
- Wright, William Hardcastle Berkeley  
4 Com-2310 Blake st
- Wrocklage, Henry Gerhardt Pasadena  
1a LS PreA-2511 Regent st Bkly 1367J
- Wulf, Fred Wilson Crescent City  
\*1 Mec-1046 Forty-eighth st, O

- Wulff, Harold Alger Sacramento  
1 Mec-2809 McGee av
- Wurster, William Wilson Stockton  
3 LS PreA(H)-2345 College av Bkly 62
- Wurbach, Genevieve Shupe San Francisco  
1 LS-500 Fillmore st, S F Park 2711
- Wyatt, Velma Pearl Winters  
1 LS-2828 Bowditch av Bkly 6201J
- Wyatt, Zelma Winters  
2 LS-1638 Milvia st
- Wyllie, Kathryn Irene Dinuba  
3 LS-1700 Euclid av Bkly 1625
- Yahanda, Teizo Pacific Grove  
3 Agr-2308 Virginia st Bkly 6441
- Yamasaki, Masamitsu Sakawa, Japan  
21 LS-2308 Virginia st
- Yates, Russell Ringo Berkeley  
1 Min-2825 Prince st Bkly 5748W
- Yee, Jew Yam Honolulu, T.H.  
1 Chem-2504 Regent st Bkly 3893J
- Yelland, Alice Margaret Los Gatos  
1 LS-2704 Channing way Bkly 8352
- Yen, Po Sum China  
2 LS-2217 Fulton st Bkly 3810
- Yerkes, Nancy Hollywood  
2 LS-2736 Haste st Bkly 8680
- Yesberg, Florence Ingrid Los Angeles  
2 LS-2510 Buena Vista way Bkly 2890W
- Yim, Chung Koo Los Angeles  
4 LS-1425 Laguna st, S F West 4129
- Yoakum, Ruby Los Angeles  
4 LS-2417 LeConte av Bkly 5650
- Yocco, Edward Shaler Los Gatos  
3 Agr-University Farm, Davis
- Yocco, Mary Los Gatos  
1 LS-2434 Piedmont av Bkly 8341
- Yokoyama, Tokiji Los Angeles  
21 Mec-928 West st, O
- Yoshida, Joe Oakland  
4 LS-1724 Myrtle st, O Oakd 5091
- Yost, Don W. Meridian, Idaho  
13 Chem-2521 Channing way Bkly 5881
- Young, Charles Le Roy Woodland  
1 CE-2309 Ellsworth st Bkly 1118
- Young, George Washington New York, N.Y.  
3 Agr-2529 Hearst av Bkly 40
- Young, Gertrude Lucy Berkeley  
4 LS-2539 Durant av Bkly 923
- Young, Madelene Grant Santa Barbara  
3 LS-2749 Dwight way Bkly 204
- \*Young, Merle Elizabeth Newhall  
4 LS-2505 College av Bkly 808
- Young, Robb Roy Berkeley  
21 LS-2612 Benvenue av Bkly 344
- Young, Robert Henry Berkeley  
2 LS PreM-2539 Durant av Bkly 923
- Young, Russell Lawhead Berkeley  
4 LS-1587 Edith st Bkly 7775J
- Young, Thomas Fraser Stockton  
1 LS-2001 Allston way Bkly 6710
- Young, William Jerome San Francisco  
4 LS and 1 Juris-2200 Piedmont av Bkly 6760
- Youngberg, James Salt Lake City, Utah  
21 Mec-2400 Haste st Bkly 4596
- Yount, Edna Portland, Ora.  
21 LS-1610 Arch st
- \*Yulich, Max Fort Bragg  
4 LS-1920 University av Bkly 7586
- Zabaldano, Alexander Nickolas  
21 Mec-1551 Powell st, S F Dgls 4954
- Zander, Florence Berkeley  
4 LS (H Hshld Art)-1316 Spruce st Bkly 3580W
- Zangerle, Anne Christine Sacramento  
21 LS-2512 Benvenue av Bkly 8660
- Zavala, Manuel L. Tarapaca, Peru  
1s Agr-1256 Clay st, S F Pspt 4243
- Zelinsky, Cyrel San Francisco  
21 LS-1512 California st, S F Pspt 5378
- Zimmerman, Bruce Lewis Highland  
21 Agr-2701 Hearst av
- Zimmerman, Henry James San Francisco  
3 Com-2248 Telegraph av Bkly 9011
- Zimmerman, Joseph Louis San Francisco  
3 LS (H Hst)-2029 Larkin st, S F Frkn 2775
- Zimmerman, Leila Augusta Los Gatos  
2 LS-2441 Russell st Bkly 1714J
- Zinn, Mabel E. Scott Long Beach  
2 LS-Oxford apts
- Zlatnik, Francis Vaclav Prague, Bohemia, Austria  
4 Com-620 Fifty-eighth st, O Pied 8283J
- Zobel, Hiller Alameda  
3 Chem (H)-552 Santa Clara av, A Ala 1705
- Zoline, Orrin Burns Chicago, Ill.  
13 LS-2332 College av Bkly 6689
- Zolling, Gilbert Farnham Oakland  
22 Chem-1331 E. Twenty-seventh st, O Mer 2111
- Zolot, Dave Victor San Francisco  
3 Agr-University Farm, Davis
- Zumbro, Francyl Reseda Riverside  
3 LS-2542 Durant av Bkly 3873
- Zumbro, Hazel Corinne Riverside  
3 LS-2542 Durant av Bkly 3873
- Zumwalt, Edgar Willis Sacramento  
3 LS-2001 Allston way Bkly 6710



## **SUPPLEMENTARY LIST OF STUDENTS, 1916-17**

(Names of students registered after the foregoing list was printed)

### **GRADUATE STUDENTS**

Bacon, Winifred M.	Berkeley	Hilfer, Karl F.	Berkeley
A.B. (Brown University) 1897		A.B. (Washington State College) 1914	
<sup>21</sup> 1 LS-1821 San Jose av	Bkly 1961W	<sup>21</sup> 1 LS-2184 University av	Bkly 6502
Enrich, Richard Stanley	Berkeley	Morgan, James Placidus	Honolulu, T. H.
A.B. 1900 and M.A. 1905 (Bates College)		A.B. (Harvard University) 1911	
<sup>21</sup> 1 LS-1111 Glen av		<sup>21</sup> 1 LS-2424 Virginia st	
Frohman, Raymond Wallace	Portland, Ore.	Woodruff, Regina	Kingman, Kans.
A.B. (Yale University) 1912		A.B. (University of Kansas) 1912	
<sup>21</sup> 1 LS-2218 Union st	Bkly 2967	<sup>21</sup> 1 LS-2630 Bancroft way	
Henderson, William Williams	Logan, Utah		
A.B. (Brigham Young University) 1903;			
M.A. (Cornell University) 1905			
<sup>21</sup> 1 LS-2436 Durant av	Bkly 6780J		

### **UNDERGRADUATE STUDENTS**

Baboyan, Garabed S.	Berkeley	Steeves, Bertha R.	Los Angeles
<sup>24</sup> 4 CE-2410 Dana st	Bkly 7047W	<sup>21</sup> 1 LS-2121 Hearst av	Bkly 881
Hammon, Glenn	San Francisco	Taughner, Helen	Belleville, Can.
<sup>21</sup> 1 LS-3650 Washington st, S F		<sup>21</sup> 1 LS-525 Van Buren av, O	Oakd 4373
	Flnr 1819		



**B. THE COLLEGES IN SAN FRANCISCO AND LOS ANGELES**

NOTE.—All addresses in the following lists are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda; P, Piedmont.

**1. HASTINGS COLLEGE OF THE LAW**

Anderson, Clarendon Witherspoon	San Francisco
1st yr—2200 Piedmont av, B	Santa Rosa
Arkush, Ellis John	Redwood City
C.E. (Columbia University) 1910	
1st yr—Redwood City	
Ashe, Frank Lawrence	San Francisco
2nd yr—3415 Mason st	
Baillie, John King	Berkeley
3rd yr—3021 Dana st, B	
Barfield, Victor Charles	San Francisco
Spec—Haddon Hall apts	
Bennett, Frank Buchanan	San Francisco
Spec—240 Duncan st	
Bequette, James Clarke	San Francisco
A.B. 1916	
2nd yr—1235 Hyde st	
Blaskower, Charles Cook	San Francisco
Spec—201 Montgomery st	
Bliss, Lawrence Mitchell	San Francisco
Ph.B. (Alfred University) 1913	
2nd yr—702 Mills bldg	
Boyken, Adolph William	San Francisco
3rd yr—2271 Howard st	
Butterfield, David Rowland	Palo Alto
1st yr—835 Middlefield rd,	Palo Alto
Carroll, James Mathew	San Francisco
Spec—572 Twenty-seventh av	
Cathcart, Franklin D.	Palo Alto
Spec—436 Waverly av, Palo Alto	
Coburn, Clarence Wooster, Jr.	San Francisco
Spec—1404 Sacramento st	
Cogswell, Charles Amos	Berkeley
3rd yr—323 Chronicle bldg	
Cornelson, Eben Douglas	Oakland
A.B. (Lawrence College) 1909	
Spec—362 Clifton st, O	
Creech, Harry M.	Oakland
Sheffield Sanborn Scholar	
3rd yr—1716 Adeline st, O	
Davies, Thomas John Price	San Francisco
Spec—2268 Franklin st	
Deady, Lancelot Charles	Carson City, Nev.
3rd yr—1370 California st	
De Journette, Charles William	Oakland
Spec—1001 Merchants Exchange bldg	
De Martini, Joseph Frank	San Francisco
1st yr—487 Sanchez st	
Deutsch, Ralph William	San Francisco
Spec—1160 Leavenworth st	
Doub, Jeannette E.	San Francisco
Spec—2090 Devisadero st	
Duncan, Aubrey Donald	San Francisco
1st yr—225 Pacheco av	
Engle, Hedwig B.	San Francisco
A.B. 1899 and M.A. 1900 (Stanford University)	
Spec—1140 Filbert st	
Erskine, Morse	San Francisco
A.B. 1916	
2nd yr—2675 California st	
Feliz, Frederick Ponciano, Jr.	Salinas
2nd yr—913 Eddy st	
Fisher, Adrien John	San Francisco
3rd yr—625 Market st	
Hennessy, Alfred John	San Francisco
2nd yr—1724 Waller st	
Hesthal, Ralph Carl	San Francisco
2nd yr—400 Duboce av	
Hogue, Helen M.	San Francisco
A.B. (Stanford University) 1901	
1st yr—709 New Call bldg	
Hone, Thomas W.	San Francisco
3rd yr—1627 Clay st	
Horan, Thomas Joseph	Vallejo
A.B. (St. Mary's College) 1913	
3rd yr—1280 California st	
Hoyt, John Dorrance	San Francisco
A.B. (Yale University) 1916	
2nd yr—6 Thirty-second av	
Huberty, Joseph Henry	San Francisco
3rd yr—1280 California st	
Jansing, John K. B.	San Francisco
Spec—94 Carl st	
Joseph, Edwin	San Francisco
1st yr—274 Twentieth av	
Keefer, Neil Harold	Fresno
Spec—2160 Center st, B	
Keyston, Garton Donald	San Francisco
2nd yr—2680 Green st	
Krueger, Laurenz James	San Francisco
1st yr—617 Merchants National Bank bldg	
Kuhn, Wendell Speer	Menlo Park
Litt.B. (Princeton University) 1914	
1st yr—454 California st	
Lackenbach, Minnie	San Francisco
Spec—1215 Jackson st	
Landon, Elliot Frost	Berkeley
1st yr—2743 Woolsey st, B	
Levin, Martin C.	San Francisco
3rd yr—174 Russ st	
Lewis, Josephine M.	San Francisco
Spec—Hotel St. James	
Lochman, Roy Elvin	Napa
1st yr—1684 Eddy st	
Lyttle, Herbert George	San Francisco
2nd yr—1801 Taylor st	

McClure, Donald	San Francisco	Schilling, Marjorie L.	Palo Alto
1st yr-1211 Flood bldg		Spec-551 Lytton av, Palo Alto	
McLaughlin, George Francis, Jr.	San Francisco	Schwartz, Salvador	San Francisco
Spec-586 Eleventh av		Spec-1708 Lake st	
McNamara, John Emmett	Merced	Seideman, George Felix	Paso Robles
A.B. (St. Mary's College) 1916		Spec-807 Kohl bldg	
1st yr-St. Mary's College, O		Selva, Eugene Shattuck	Eureka
McShane, Joseph J.	San Francisco	Spec-Hotel Manx	
Spec-4112 Twenty-second st		Short, John Douglas	Fresno
McVay, Nathan Bolt	Crescent City	A.B. 1916	
3rd yr-848 Gough st		2nd yr-1922 Sacramento st	
Magee, Howard Fitzroy	San Rafael	Smith, Helene Siebert	Oakland
A.B. (St. Mary's College) 1916		Spec-641 Twenty-second st, O	
1st yr-633 Fourth st, San Rafael		Smith, Paul Delaware	Oakland
Margolis, Charles LaSalle	San Francisco	1st yr-424 Hill lane, O	
Spec-446 Lake st		Smith, Stanford Geary	Santa Cruz
Martinez, Segundo	Philippine Islands	Spec-734 Rand av, O	
3rd yr-705 Broadway		Snitjer, Edwin Newton	San Francisco
Marvin, William Glenn	San Francisco	Ph.B. (Yale University) 1900	
A.B. 1914		1st yr-525 Hugo st	
3rd yr-1100 Dolores st		Sommer, Peter Solomon	San Francisco
Nelson, Thomas Churchill	Oakland	1st yr-2852 California st	
3rd yr-348 Fifty-first st, O		Spiers, William Gladstone	San Francisco
Nolan, Stanley Fedaluis	San Francisco	Ph.B. 1896	
A.B. (St. Ignatius University) 1916		1st yr-1724 Vallejo st	
3rd yr-2524 Washington st		Stafford, Walter Joseph	San Francisco
Okawara, Tom	San Francisco	1st yr-3516 Twenty-third st	
2nd yr-1763 Sutter st		Stewart, Richard Kirby	Fresno
Orwitt, Frank	San Francisco	3rd yr-1280 California st	
Spec-1272 Fulton st		Stockton, Jesse DeWitt	Bakersfield
Osborne, Robin Hart	San Francisco	1st yr-2418 College av, B	
1st yr-1051 Franklin st		Street, Charles Edward, Jr.	San Francisco
Ostrander, Frederick Willis	Berkeley	A.B. 1916	
3rd yr-2948 Magnolia st, B		1st yr-1200 Pine st	
Oyen, Scipio A.	Berkeley	Swanson, George	Mankato, Minn.
Spec-1709 Short st, O		2nd yr-918 Eddy st	
Patterson, William Lorenzo	San Francisco	Taaffe, John Joseph	San Francisco
1st yr-985 Pine st		3rd yr-1233 Clayton st	
Peralta, José	San Fernando, P. I.	Tapscott, Robert Merrill	Berkeley
A.B. (Ateneo de Manila) 1912		3rd yr-1201 Hobart bldg	
1st yr-20 Cornell st		Tharp, Laurence	San Francisco
Pleasants, Samuel Augustus	Berkeley	Spec-1600 Lyon st	
B.L. 1915		Toscano, William Pasqualino	Los Banos
3rd yr-1802 Walnut st, B		A.B. 1916	
Postel, Adolph Claus	San Francisco	2nd yr-161 Ellis st	
3rd yr-2962 Fillmore st		Urieli, Adassa Ada	San Francisco
Price, Harold Howard	San Francisco	LL.B. (St. Petersburg University) 1915	
2nd yr-650 Bush st		Spec-1430 Larkin st	
Riley, Robert Scales	San Francisco	von Worthen, Joseph	San Francisco
2nd yr-64 Turk st		Ph.G. 1889	
Sanchez, Juan M.	Manila, P. I.	1st yr-2698 Folsom st	
A.B. (Liaes de Manila) 1911		Wedvig, Peter	Berkeley
3rd yr-705 Broadway		2nd yr-957 Pacific bldg	
Sandford, George Elliott	San Francisco	Weinberg, Frances Toor	San Francisco
Spec-Olympic Club		B.L. 1914	
Sawtelle, James Mhoon	San Francisco	1st yr-400 Octavia st	
Spec-424 Ellis st		White, Charles Whitfield	San Francisco
Scheyer, Sidney	San Francisco	Spec-35 Buena Vista ter	
1st yr-299 First av		Wimmer, Joseph	Oakland
		Spec-765 Fifteenth st, O	

## 2. MEDICAL SCHOOL

NOTE.—The medical classes of the first year and part of the second year are conducted in Berkeley; all other medical instruction is given in San Francisco. Medical students who are taking any part of their work in Berkeley are listed also among graduate or undergraduate students in the foregoing pages.

Amsbaugh, Archibald Eli	Newman	Coblentz, Zach Benjamin	Santa Maria
1st yr—2218 Union st, B	Bkly 2987	1st yr—2611 Durant av, B	Bkly 4525W
Armstrong, Mary Isabella	Piedmont	Coe, Harry Carson	Selma
A.B. 1915		A.B. (Stanford University) 1916	
3rd yr—112 Bonita av, O	Pied 890	1st yr—2446 Washington st, S F	
Arnot, Philip Howard	Placerville		Fimr 3822
A.B. 1916		Cohn, Allan Largess	San Francisco
2nd yr—1251 Second av, S F	Snst 1810	B.S. 1914	
Atkinson, Dorothy Wells	Tacoma, Wn.	4th yr—2436 Clay st, S F	Fimr 662
A.B. 1916; Sheffield Sanborn Scholar		Cohn, Mendel Leopold	Berkeley
2nd yr—1278 Fourth av, S F	Snst 716	B.S. 1914	
Ayers, Thomas Fred	San Francisco	4th yr—2630 Piedmont av, B	Bkly 7735
B.S. 1914		Cook, Orrin S.	Lodi
2nd yr—1006 Page st, S F	Park 4700	B.S. 1914	
Ball, Dexter Rankin	Santa Ana	4th yr—1420 Fifth av, S F	Snst 1874
A.B. 1916		Cooke, Alma Locke	Oakland
1st yr—2647 Durant av, B	Bkly 102	B.S. 1911	
Bell, Thomas Floyd	San Francisco	2nd yr—139 Hugo st, S F	Snst 2663
A.B. 1915		Cordes, Frederick Carl	Los Angeles
3rd yr—1879 Fifth av, S F	Snst 1848	A.B. 1915	
Belt, Arthur Elmer	Huntington Park	3rd yr—1251 Second av, S F	Snst 1810
A.B. 1916; Research Fellow on the		Craig, Charles Alfred	Lakeport
Hooper Foundation, second half-year		4th yr—450 Irving st, S F	Snst 807
2nd yr—1367 Third av, S F	Snst 2247	Cribari, Louis Antonio	San Jose
Bennett, Charles Barrows	Berkeley	1st yr—2632 Durant av, B	Bkly 5137
Ph.D. 1912		Davis, Nelson Caryl	Ceres
3rd yr—814 Cole st, S F	Mrkt 7736	1st yr—2208 Chapel st, B	
Berwick, Charles Coleman	Berkeley	Delamere, Granville Sinclair	Berkeley
1st yr—1935 Hearst av	Bkly 3199	1st yr—2612 Piedmont av, B	Bkly 6042
Bingaman, William Henry	Soledad	DeLancey, Chester Arthur	Oakland
1st yr—455 Crescent st, O		A.B. 1916	
Binkley, Robert Wilson	Santa Ana	2nd yr—625 Sycamore st, O	Lksd 2561
A.B. 1915		Dement, John Carey, Jr.	San Diego
3rd yr—1251 Second av, S F	Snst 1810	A.B. 1916	
Brendel, Frank Philip	Sacramento	1st yr—2625 Hearst av, B	Bkly 7614
4th yr—1376 Third av, S F	Snst 3094	Dodge, Henry Chipman	Stockton
Briggs, Alfred Poyneer	Los Angeles	A.B. 1915	
B.S. (University of Colorado) 1912		3rd yr—1808 Fifth av, S F	Snst 2236
2nd yr—1251 Second av, S F	Snst 1810	Dormody, Hugh Frederick	Placerville
Bruck, Edwin Louis	St. Helena	1st yr—2380 College av, B	Bkly 5098
A.B. 1916		Farrington, Efner Dwight	El Monte
2nd yr—1251 Second av, S F	Snst 1810	1st yr—2427 Durant av, B	Bkly 4521
Burr, Ruth	Sacramento	Fay, Jewel	San Francisco
A.B. 1915		B.L. 1912	
2nd yr—139 Hugo st, S F	Snst 2663	4th yr—1381 Third av, S F	Snst 3015
Calvi, Pini Joseph	San Francisco	Fleming, Howard Webster	San Jose
B.S. 1914		B.S. 1914	
4th yr—1120 Mason st, S F	Gfd 2017	4th yr—1251 Second av, S F	Snst 1810
Childress, Marmion Hugo	Berkeley	Foster, Daniel Parsons	Portland, Ore.
1st yr—2415 Woolsey st, B	Bkly 7539	1st yr—2521 Hearst av, B	Bkly 708
Chubb, Florence Josephine	San Francisco		
B.L. 1910			
3rd yr—1212 First av, S F	Snst 674		

- Fowler, Charles Beebe San Francisco  
A.B. 1916  
2nd yr-1280 Leavenworth st, S F  
Pspst 3172
- Frandy, Mervyn Francis Nevada City  
A.B. 1916  
2nd yr-270 Carl st, S F Park 7379
- Frey, William Christensen Modesto  
4th yr-1275 Third av, S F Snt 1012
- Freytag, Charles Louis San Rafael  
A.B. 1915  
3rd yr-1283 Second av, S F Snt 2401
- Frolich, Walter Herbert San Francisco  
A.B. 1915  
3rd yr-330 Willard st, S F Pac 1900
- Graves, Cletus Henry Pennington  
2nd yr-1811 Hearst av
- Gregory, Waldron Ashley Madison  
A.B. 1916  
1st yr-2521 Durant av, B Bkly 3487
- Haight, Frank Kelsey Fortuna  
1st yr-2634 Bancroft way, B Bkly 6744
- Hall, Charles C. Portland, Ore.  
A.B. 1916; Research Fellow on the  
Hooper Foundation, second half-year  
2nd yr-1489 Fifth av, S F Snt 3062
- Hardgrave, Lloyd Elliott Taylorsville  
2nd yr-2500 Bancroft way, B Bkly 1848
- Harris, Isadore Franklin San Francisco  
1st yr-291 Carl st, S F Mkt 2085
- Hart, Cavins Deter Colusa  
3rd yr-131 Hugo st, S F Snt 234
- Harvey, James Ernest Los Angeles  
4th yr-1251 Second av, S F Snt 1810
- Hawley, Darrell B. Berkeley  
Graduate (U. S. Naval Academy) 1911  
1st yr-2428 Bancroft way, B Bkly 8034
- Heaney, Robert Harold San Francisco  
A.B. (St. Ignatius University) 1912  
4th yr-4287 Twenty-third st, S F  
Man 3541
- Hill, Mary Ruth Carson, Nev.  
A.B. 1915  
3rd yr-139 Hugo st, S F Snt 2745
- Hirschfeld, Mervyn Heller San Francisco  
B.S. 1914  
4th yr-731 Duboce av, S F Mkt 9426
- Hitchcock, Harold Homer San Francisco  
A.B. 1915  
3rd yr-1308 Fifth av, S F Snt 2236
- Hollingsworth, Merrill Windsor Los Angeles  
B.S. 1914  
4th yr-Mt. Zion Hospital, S F West 86
- Hoobler, Hal Rexford Berkeley  
B.S. 1913  
1st yr-2521 Durant av, B Bkly 3487
- Hoyt, Hubbard Spencer Pacific Grove  
1st yr-2112 Durant av, B Bkly 7751
- Hummel, Heinz George San Francisco  
A.B. 1916  
2nd yr-139 Hugo st, S F Snt 234
- Huntington, Thomas Waterman, Jr. San Francisco  
A.B. 1916  
2nd yr-2629 Pacific av, S F West 833
- Iki, George S. Berkeley  
1st yr-1430 Milvia st, B Bkly 2155
- Jeffry, Demetrio Eugene Healdsburg  
1st yr-2627 Ridge rd, B Bkly 2541
- Keith, Charles Frank Berkeley  
A.B. 1916  
1st yr-2622 Dana st, B Bkly 2739J
- Kingston, John J. San Francisco  
1st yr-320 Pierce st, S F Mkt 5193
- Kitsuda, Frank Yoshimichi Berkeley  
A.B. 1916  
1st yr-2308 Virginia st, B Bkly 6441
- Kiyasu, Kunisada Anaheim  
A.B. 1916  
1st yr-2308 Virginia st, B Bkly 6441
- Larson, Ewald Axel Kingsburg  
1st yr-2407 S Atherton st, B Bkly 3330
- Lee, Russell Van Arsdale San Francisco  
1st yr-2446 Washington st, S F  
Flmr 3822
- Leigh, Armistead C., Jr. Los Angeles  
1st yr-2001 Allston way Bkly 6710
- Locke, Charles Edward, Jr. Los Angeles  
A.B. 1916  
2nd yr-1251 Second av, S F Snt 1810
- Loraine, Charles Whitney San Francisco  
1st yr-2528 Ridge rd, B Bkly 3277
- Lynch, William Patrick Joseph Stockton  
3rd yr-131 Hugo st, S F Snt 234
- McCoy, Horace Hoagland Beaumont  
B.S. (Occidental College) 1913  
4th yr-12 Woodland av, S F Mkt 8039
- McQuarrie, Irvine St. George, Utah  
A.B. 1915  
1st yr-1932 Home st, B Bkly 4795W
- McQuarrie, John Gray Berkeley  
3rd yr-1689 Haight st, S F Park 7823
- McTaggart, Garrett Rich Stockton  
1st yr-2028 Bancroft way, B Bkly 3222
- Maggs, Frederic George San Francisco  
2nd yr-55 Alpine ter, S F Park 227
- Martin, Robert Carson Portland, Ore.  
A.B. 1916  
2nd yr-1251 Second av, S F Snt 1810
- Mehlmann, Emma San Luis Obispo  
B.L. 1908  
4th yr-Relief Home, S F Snt 1580
- Merrill, Belle Ellingsen Oakland  
2nd yr-139 Hugo st, S F Snt 2663
- Miller, Hiram Edgar Elk Grove  
A.B. 1916; William Watt Kerr Scholar  
4th yr-1420 Fifth av, S F Snt 608
- Mohs, Oscar Kempfer San Leandro  
A.B. 1916  
2nd yr-1251 Second av, S F Snt 1810
- Muller, Vinton Adolf Nevada City  
4th yr-1420 Fifth av, S F Snt 608

Olsen, Elwood Richard	San Francisco	
1st yr-55 Devisadero st, S F	Mrkt 1121	
Olsen, Sidney	Riverside	
A.B. 1915		
3rd yr-1420 Fifth av, S F	Snst 608	
Patterson, Gilbert Lansing	Stockton	
1st yr-2345 College av, B	Bkly 62	
Pendleton, Lois	Berkeley	
A.B. 1916		
2nd yr-139 Hugo st, S F	Snst 2663	
Penland, Hugh Elmer	Berkeley	
B.S. (Oregon Agricultural College) 1900		
4th yr-2350 Woolsey st, B	Bkly 2449	
Pennington, Alma Stevens	San Francisco	
B.S. 1914		
4th yr-2828 Folsom st, S F	Men 1122	
Potter, Clarence Griffith	San Francisco	
1st yr-836 Clayton st, S F	Park 3715	
Rabinowitz, Ralph	San Francisco	
A.B. 1915		
3rd yr-1714 Steiner st, S F	Flmr 4311	
Reische, Alverda Elva	Meridian	
A.B. 1915		
2nd yr-139 Hugo st, S F	Snst 2663	
Righetti, Ethel Lucia	San Francisco	
B.S. 1914		
3rd yr-305 Walnut st, S F	West 3818	
Righetti, Homer	San Francisco	
A.B. 1915; M.A. 1916		
3rd yr-305 Walnut st, S F	West 3818	
Sala, David Germain	Stockton	
1st yr-2500 Bancroft way, B	Bkly 1848	
Sampson, John Jacob	San Francisco	
1st yr-2211 Fulton st, B	Bkly 6045W	
Sawyer, Henry Albert	Riverside	
1st yr-88 Shasta st, B	Bkly 8550W	
Schluter, Hans Frank	Orland	
1st yr-2600 Durant av, B	Bkly 2593	
Schulze, Elizabeth	Berkeley	
B.S. 1914		
4th yr-1731 Carlton st, S F		
Seligman, Lewis	Dinuba	
4th yr-1278 Fourth av, S F	Snst 716	
Sharpstein, Jay Randolph	Alameda	
1st yr-1545 Benton st, A	Ala 93	
Shaw, Edward Byer	Berkeley	
1st yr-2521 Durant av, B	Bkly 8437	
Shew, George Konhall	San Jose	
A.B. 1916		
2nd yr-1739 Carlton st, B	Bkly 5540	
Shufelt, Alson Anderson	Reno, Nev.	
4th yr-2520 Twenty-fourth av, S F		
Silberman, Henry	San Francisco	
1st yr-1372 McAllister st, S F	West 4066	
Silver, Milton	Los Angeles	
1st yr-Los Angeles		
Silverberg, Morris Harold	San Francisco	
1st yr-2519 Durant av, B	Bkly 8543	
Sink, William Dan	San Francisco	
A.B. 1915		
3rd yr-1251 Second av, S F	Snst 1810	
Smith, Harry Pratt	Oakland	
A.B. 1916; Research Fellow on the		
Hooper Foundation, second half-year		
2nd yr-1832 Sixth av, S F		
Solomon, William Otto	Eureka	
A.B. 1915		
3rd yr-131 Hugo st, S F	Snst 234	
Sooy, Daniel Warren	Alameda	
4th yr-1251 Second av, S F	Snst 1810	
Sullivan, James McGeough	San Francisco	
A.B. (St. Ignatius University) 1914		
12nd yr-759 Buena Vista av, S F		
	Mrkt 8928	
Sussdorf, Homer Ignatius	Berkeley	
1st yr-2542 Chilton way, B	Bkly 2136	
Taussig, Laurence	San Francisco	
A.B. 1915; M.A. 1916		
3rd yr-2450 Fulton st, S F	Pac 1619	
Taylor, Fletcher Brandon	Pasadena	
A.B. 1915; M.A. 1916		
3rd yr-1420 Fifth av, S F	Snst 608	
Thomas, Bert Stanford	San Francisco	
A.B. 1916		
2nd yr-2869 Bush st, S F	Flmr 2054	
Thompson, Claude Verner	Orland	
1st yr-2614 Dwight way, B	Bkly 1276	
Trimble, Harold Guyon	Oakland	
2nd yr-386 Oakland av, O	Lked 8877	
von Geldern, Hans	San Francisco	
A.B. 1916		
12nd yr-2501 Ridge rd, B	Bkly 1385	
Warren, Arthur Lafayette	Berkeley	
1st yr-1610 Bonita av, B	Bkly 68	
Washburn, William Wallace	San Francisco	
B.S. (Dartmouth College) 1914		
4th yr-1420 Fifth av, S F	Snst 608	
Williams, George Anderson	Berkeley	
1st yr-1980 University av, B		
Williams, John Chilton	Berkeley	
B.S. 1914		
4th yr-1980 University av, B		
Yocom, Frank Willis	Pasadena	
B.S. (South Dakota State College) 1910		
1st yr-2642 Bancroft way, B	Bkly 635	
Zumwalt, Elmo Russell	Richmond	
4th yr-Relief Home, S F	Snst 1580	

## 3. LOS ANGELES MEDICAL DEPARTMENT

NOTE.—All addresses are in Los Angeles unless stated to be elsewhere. Students may be reached by telephone through the Los Angeles County Medical Association Telephone Exchange (Main 7675 and 60789).

- Barclay, H. A. Colona, Colo.  
M.D. (Denver and Gross College) 1906
- Barton, A. Louis Los Angeles  
M.D. (Med. Dept., University of Colorado) 1897  
510 Grant bldg
- Beebe, Curtis M. Long Beach  
M.D. (Chicago Homeopathic Medical College) 1883
- Bock, Charles Los Angeles  
M.D. (Fort Wayne Medical College) 1897  
703½ Central av
- Boyd, Wilbur T. Rusdale  
M.D. (College of Physicians and Surgeons, University of Southern California) 1911
- Bridgewater, James E. Creswell, Ore.  
M.D. (St. Louis University Medical Department) 1910
- Carter, Ray A. Los Angeles  
M.D. (College of Physicians and Surgeons, University of Southern California) 1913  
2711 Central av
- Collins, William H. Twisp, Wn.  
M.D. (Northwestern University Medical School) 1909
- Craig, John Bryan Uplands  
M.D. (College of Physicians and Surgeons, University of Southern California) 1914
- Crane, Walter Los Angeles  
M.D. (College of Physicians and Surgeons, Columbia University) 1912  
1103 W Fifty-fourth st
- Craner, George Edward Burley, Idaho  
M.D. (University of Colorado) 1913
- de Chene, Anna Bass Tonopah, Nev.  
M.D. (Hahnemann Medical College, San Francisco) 1905
- Edgerton, Harry Pomona  
M.D. (Kansas City Medical College) 1904
- Egbert, James Indianapolis, Ind.  
M.D. (Medical College of Indiana) 1898
- Gallagher, Hiram Los Angeles  
M.D. (Johns Hopkins Medical School) 1911  
725 Marsh-Strong bldg
- Garner, D. O. Long Beach  
M.D. (St. Louis College of Physicians and Surgeons) 1896  
755 Obispo av, Long Beach
- Graham, Lyle Del Rey  
M.D. (Gross Medical College) 1898
- Gundrun, Willis H. Denver, Colo.  
M.D. (University of Pittsburgh) 1892
- Gwinn, L. M. Los Angeles  
M.D. (University of Colorado) 1913  
3401 Mission rd
- Harrison, George William Los Angeles  
M.D. (Missouri Medical College) 1878  
1327 Magnolia av
- Hedges, William Harry Los Angeles  
M.D. (Medical College, St. Louis) 1910  
141 N Flower st
- Henry, C. W. Coon Rapids, Iowa  
M.D. (Rush Medical College) 1884
- Hutchinson, W. J. Los Angeles  
M.D. (University of Southern California) 1909  
523 Temple st
- Iseri, Kawor Los Angeles  
M.D. (Cooper Medical College) 1912  
1133 Trenton st
- Izuno, F. Los Angeles  
D.O. (Los Angeles College of Osteopathic Physicians and Surgeons) 1912  
117½ Wilmington st
- Kavanaugh, Bernard Los Angeles  
D.O. (Los Angeles College of Osteopathic Physicians and Surgeons) 1912  
319 Consolidated Realty bldg
- Kelley, George F. Oxford, Kans.  
M.D. (Columbia Medical College) 1901
- Lee, H. C. Trinidad, Colo.  
M.D. (University Medical College of Kansas City) 1898
- Lucas, Frank Benson Los Angeles  
M.D. (College of Physicians and Surgeons, Chicago) 1893  
4417 Mosher av
- McCauley, A. Los Angeles  
D.O. (Des Moines College)  
620 S Figueroa st
- McClelland, Norman M. Los Angeles  
M.D. (Memphis Medical College) 1913  
2000 Miramar st
- McKell, William Scott Chillicothe, Ohio  
M.D. (University of Colorado) 1913
- McKillop, J. E. Huntington Beach  
M.D. 1911  
Huntington Beach
- Mellenthin, M. A. Los Angeles  
M.D. (University of Missouri) 1906  
6665 Franklin av
- Nettle, Anna I. Colorado Agency  
M.D. (Harvard University) 1905



Nordstrum, S. G.                      Sioux Rapids, Iowa  
M.D. (Drake University) 1888  
Northrup, Fred D.                      Pasadena  
M.D. (Hahnemann Medical College, Kansas City) 1904  
1001 Stratford av, Pasadena  
Park, John B.                              Los Angeles  
M.D. (University of Pennsylvania) 1878  
1341 N Normandie av  
Reed, Wallace A.                              Covina  
M.D. (Bellevue Medical College) 1913  
Reeks, Lloyd D.                              Los Angeles  
D.O. (Los Angeles College of Osteopathic Physicians and Surgeons) 1913  
411 Bradbury bldg  
Riggs, Lester Davis                              Valentine, Ariz.  
M.D. (Missouri Medical College) 1904  
Root, Romeo R.                              Corona  
M.D. (College of Physicians and Surgeons, Chicago) 1902

Rude, Clarence C.                              Los Angeles  
D.O. (American School of Osteopathy) 1907  
1221 W Seventh st  
Scarborough, Alonzo O.                              Synder, Texas  
M.D. (Kentucky School of Medicine) 1889  
Turner, James H.                              Huntington Beach  
M.D. (Tufts Medical College) 1903  
223 N. Pacific blvd, Huntington Beach  
Ulvin, Henry                                      Silverton, Ore.  
M.D. (University of Oregon) 1890  
Waite, Ira W.                                      Los Angeles  
M.D. (Northwestern University, Chicago) 1872  
752 E Third st  
Weitkamp, Alfred                                      Los Angeles  
M.D. (Denver College of Physicians and Surgeons) 1909  
4918 Budlong av

## 4. COLLEGE OF DENTISTRY

Armistead, John Oliver	Newman	Craig, Charles Westley	Capay
3rd yr-1845 Fifth av	Snat 2408	2nd yr-1248 Fifth av	Snat 3261
Austin, Lloyd Crocket	Fresno	Craig, James Steward	Napa
3rd yr-1845 Fifth av	Snat 2408	2nd yr-1845 Fifth av	Snat 2408
Bailey, Oscar	San Diego	Creas, Robert Rudolph	San Francisco
3rd yr-1248 First av	Snat 1141	1st yr-317 Twenty-ninth st	Man 4067
Banker, William Jennings	Ukiah	Cuenin, Leon George	San Francisco
1st yr-1248 Fifth av	Snat 3261	2nd yr-1626 Vallejo st	Frkn 8056
Barber, Leland Austin	San Francisco	Cunningham, John Lindsay	San Francisco
1st yr-271 Ninth av	Pac 1399	1st yr-513 Liberty st	Man 5931
Barnum, William Gordon	Oakland	Dorman, Carl Nichols	Sacramento
3rd yr-408 Hudson st, O		3rd yr-1845 Fifth av	Snat 2408
Baronidis, Cedric Cyril	San Francisco	Doty, Gerald Edwin	Courtland
2nd yr-1512 Masonic av	Mkrt 8116	3rd yr-176 Belvedere st	Park 1677
Barton, Roy Franklin	Pittsfield, Ill.	Ehorn, Paul	Oriand
1st yr-1867 Third av		2nd yr-94 Carl st	
Bell, Robert	Napa	Epley, Francis Wayland	Bellingham, Wa.
2nd yr-Estrella Ranch,	Napa 12F5	2nd yr-975B Clayton st	
Berryman, Elmer Holmes	Grass Valley	Epstein, Abe	San Francisco
2nd yr-1248 Fifth av	Snat 3261	2nd yr-3231 Mission st	Man 8022
Bettencourt, George Leo	Mendocino	Fischer, Ernest Clifton	San Francisco
1st yr-1288 Second av	Snat 2401	1st yr-177 Eighth av	Pac 1288
Block, Thomas Ryan	Gridley	Fischer, Marguerite	San Francisco
1st yr-322 Parnassus av		3rd yr-177 Eighth av	Pac 1288
Boyd, Charles Edward	Brawley	Fowler, Clinton	Bakersfield
1st yr-2520 Howard st		1st yr-1845 Fifth av	Snat 2408
Boyd, Eddy Tallman	Napa	Frank, John Herbert	San Francisco
3rd yr-1845 Fifth av	Snat 2408	2nd yr-274 Twenty-sixth av	Pac 6071
Bradley, Charles Dustan	Spreckels	Frates, Robert Carmel	San Francisco
3rd yr-1845 Fifth av	Snat 2408	1st yr-1209 Second av	Snat 1005
Breese, Lester Elmer	San Francisco	Frisbie, Harry Earle	Oakland
1st yr-1036 Polk st	Frkn 4410	2nd yr-3409 California st, B	
Brown, Clements William	Clements		Pied 8216W
1st yr-1467 Willard st	Park 5111	Gealey, Renwick William	Oakland
Burgess, Howard Harmon	Stockton	3rd yr-1123 Fifty-third st, O	
2nd yr-415 Buchanan st		George, Reuben Amos	Crockett
Burnett, Glenn Hazen	Stockton	2nd yr-1252 First av	Snat 1658
1st yr-1467 Willard st	Park 5111	Glazer, Maurice	Escanaba, Mich.
Busick, Claude Leland	Union, Ore.	3rd yr-554 Thirty-second st, O	
1st yr-1447 Sixth av		Gibson, Earl John	San Diego
Butler, Chester Gregson	San Francisco	1st yr-522 Judah st	Snat 1340
2nd yr-1821 Lake st	Pac 4855	Glasson, Percy	Grass Valley
Cadwallader, Ward Glenn	Clovis	1st yr-280 Carl st	Park 9919
2nd yr-1467 Willard st	Park 5111	Godbolt, Fred Bolton	Red Bluff
Campbell, John Lockhart	Pacific Grove	3rd yr-1248 Fifth av	Snat 3261
3rd yr-1248 First av	Snat 1141	Goff, George Almon	San Anselmo
Carlen, Amy E.	San Francisco	2nd yr-San Anselmo	
1st yr-1156 Vallejo st	Frkn 5314	Gold, Isaac Eugene	San Francisco
Carmean, Clyde Charles	Morgan Hill	2nd yr-1555 Clement st	Pac 7468
2nd yr-1248 Fifth av	Snat 3261	Golden, Winfred Leo	Oakland
Cauch, Wilbur Rogers	San Jose	1st yr-1437 Seventy-eighth av, O	
1st yr-917 Cole st		Goodman, Sheldon Herbert	San Francisco
Chessall, Ralph Perry	Ukiah	2nd yr-1326 Clement st	
3rd yr-1248 Fifth av	Snat 3261	Green, Roy Albert	Sacramento
Cochrane, Claude Tony	San Francisco	1st yr-1957 Turk st	West 1170
1st yr-200 Eureka st	Man 525	Griffitts, James Raymond	East Auburn
Colvin, Ernest Fleming		3rd yr-1467 Willard st	Park 5111
	New Pine Creek, Ore.	Grover, George B.	St. Anthony, Idaho
3rd yr-1467 Willard st	Park 5111	1st yr-1248 Fifth av	Snat 3261

Groves, Murray Howell	Chico	Kogure, Tokutaro	Japan
2nd yr-1441 Ninth av		2nd yr-1662 Post st	West 2484
Gwinn, Charles Dudley	San Francisco	LaBaree, Eugene Allison	Berkeley
3rd yr-167 Twenty-second av	Pac 2956	1st yr-2615 Ashby av, B	Bkly 1735
Hahn, George Walter	San Francisco	LaPlace, Marcel George	San Francisco
1st yr-2715 Peralta av, O	Frwl 1893W	1st yr-2531 Washington st	West 6731
Haley, John Mervyn	Oakland	Laaky, Mervyn Charles	San Francisco
1st yr-4205 Terrace st, O	Pied 4889W	1st yr-214 Twenty-eighth av	Pac 264
Hare, Frederick Hugill	Redding	Lifschitz, Mathew	San Francisco
2nd yr-94 Carl st		2nd yr-1257 Guerrero st	Valen 4144
Haskins, William Howard	San Jose	Lind, Harry Calvin	San Francisco
2nd yr-172 Parnassus av		3rd yr-2281 Dana st, B	Bkly 5249
Hawkins, Walter Joyce	Grass Valley	Lingenfelter, Jessie Alvin	San Francisco
1st yr-1248 Fifth av	Snst 3261	1st yr-1248 Fifth av	Snst 3261
Hayashi, Tokutaro	Sacramento	Lipp, Charles Schiller	Point Richmond
2nd yr-1526 Geary st	West 1461	3rd yr-1467 Willard st	Park 5111
Heacock, Lyman Dunlap	San Francisco	Lonn, Nestor Maximillian	
A.B. 1916			Gothenberg, Sweden
*1st yr-1420 Ninth av	Snst 1237	3rd yr-1248 Fifth av	Snst 3261
Heimlich, Albert Franklin	Santa Barbara	Lowell, Walter Hazelwood	Oakland
1st yr-2222 Dwight way, B		3rd yr-McAdam st, O	Pied 5653
Helmer, George A.		Lynch, Philip Thomas	San Francisco
1st yr-125 Judah st		2nd yr-1004 Sanchez st	Msn 462
Hills, Avery Scott	Sacramento	Maimone, Paul Emmett	Oakland
3rd yr-1345 Fifth av	Snst 2408	1st yr-1309 Eighty-fourth av, O	Elm 572
Hinck, Louis Robert	Oakland		Willows
2nd yr-2115 Twenty-fourth av, O		Marshall, Leon Westley	
Hughes, Thomas Edgar	Alameda	2nd yr-2883A Golden Gate av	
3rd yr-1526 1/2 Morton st, A		Marsili, Constantine	San Francisco
Hurd, Rollin Edgar	San Francisco	1st yr-2937 Folsom st	Valen 2
1st yr-1283 Second av	Snst 2401	Martin, Webster	New York, N. Y.
Jackson, Dequilla Quincy	Vallejo	1st yr-1467 Willard st	Park 5111
1st yr-1296 Twelfth av		Mashihara, Taija	Japan
Jacobson, Arthur Leonard	San Francisco	2nd yr-2311 Buena Vista av, A	
1st yr-1345 Fifth av	Snst 2408	Mathewson, Joseph Edward	Yreka
James, Vernon Edward	Oroville	1st yr-1278 Sixth av	
2nd yr-1248 Fifth av	Snst 3261	Mathis, Earle Howard	San Francisco
Jansen, Jerome John	San Francisco	2nd yr-189 Parnassus av	
3rd yr-56 Alma st		Matteson, J. Vance	San Francisco
January, John William	Vacaville	1st yr-1826 Sixth av	
1st yr-614 Page st	Park 1643	Morin, Adrian Lewis	San Francisco
Johnson, Charles Eugene	Hollister	3rd yr-616 Baker st	West 9587
3rd yr-1833 Fifth av	Snst 747	Nakahara, Saichi	Hawaii
Johnson, Chester William	Ferndale	1st yr-3494 Jackson st	Flmr 1808
2nd yr-1248 Fifth av	Snst 3261	Neff, Clarence Wilson	Alameda
Johnson, Ernest Leroy	San Francisco	1st yr-1450 Fernside blvd, A	Ala 3015
1st yr-1345 Fifth av	Snst 2408	Nygard, Alfred	San Francisco
Johnston, Howard Milne	Watsonville	1st yr-1283 Second av	Snst 2401
3rd yr-1248 Fifth av	Snst 3261	O'Connell, Aloysius John	Hollister
Jungermann, Otto Richard	Berkeley	1st yr-2348A Fulton st	
2nd yr-1467 Willard st	Park 5111	Olswang, Samuel Ripley	San Francisco
Kato, Shokichi	Japan	1st yr-176 Belvedere st	Park 1677
1st yr-1359 Pine st	Frkn 3888	Ortiz, Roual	Mexico
Kazanjan, Ardashes Arthur	Fowler	2nd yr-33 Scott pl	
1st yr-798 Clayton st	Park 3162	Parraga, Frank	Central America
Kemble, James Hugh	Alturas	1st yr-300 Baker st	
1st yr-1385 Clay st	Psppt 3698	Peck, Max	Kief, Russia
Ker, Ernest Rosekrans	San Francisco	1st yr-1529 Steiner st	West 7145
2nd yr-117 Lyon st	Park 1700	Pohlman, Theodore Hardiman	
King, Carl Eugene	Hollister		San Francisco
2nd yr-714 Second av	Pac 278	2nd yr-221 Cole st	Pac 1686

Porter, Kenneth Carl	Hermosa Beach	Stock, Clarence Alden	Virginia City, Nev.
1st yr-1867 Third av		3rd yr-1248 Fifth av	Snst 3261
Powell, Noble Allen	Stockton	Streeter, Millard Joseph	Fresno
3rd yr-1467 Willard st	Park 5111	2nd yr-1686 Eighteenth av, O	Mer 2558
Pruett, Alvin William	Fresno	Sweet, Charles	Berkeley
1st yr-1105 Stanyan st	Park 4637	1st yr-2910½ Benvenue av, B	Bkly 5757W
Rantz, Lester Bevard	Lakeport	Sylv, Francis K.	Honolulu, T. H.
3rd yr-1248 Fifth av	Snst 3261	3rd yr-176 Belvedere st	Park 1677
Rapp, Carl Paul	Turlock	Tanaka, Toshi	San Francisco
2nd yr-94 Carl st		3rd yr-579 Cedar av	
Reardan, Leslie Huntington	Oroville	Terwilliger, Glendon Hood	Montague
2nd yr-1721 Lyon st	Flmr 3124	1st yr-1278 Sixth av	
Rebstock, Eugene E.	San Francisco	Terwilliger, Kenneth Francis	Montague
1st yr-1243 Second av	Snst 264	1st yr-1278 Sixth av	
Rickley, John Lloyd	Oakland	Tilden, Thomas Edwin	Sacramento
1st yr-1252 First av	Snst 1658	2nd yr-1345 Fifth av	Snst 2408
Ridenour, Harris	Stockton	Tollefson, Homer Clinton	Tacoma, Wn.
2nd yr-1467 Willard st	Park 5111	3rd yr-1248 Fifth av	Snst 3261
Roberts, Samuel Josiah	Lake Crystal, Minn.	Tompkins, Carl Phillip	Meridian, Idaho
2nd yr-1248 Fifth av	Snst 3261	1st yr-1367 Third av	
Robertson, John Franklin	Napa	Tweed, Charles Henry	Hayden, Ariz.
1st yr-125 Irving st	Snst 1196	1st yr-1472 Twelfth av	
Rosen, Bernard	Alameda	Van Alstyne, Byron Edmond	San Francisco
1st yr-1415 Paru av, A	Ala 2838	1st yr-1067 Valencia st	Valen 3313
Russell, John Edgar	Porterville	Vorwerk, Leo Luke	Vallejo
1st yr-1283 Second av	Snst 2401	2nd yr-1345 Fifth av	Snst 2408
Schuchard, Leo William	Medford, Ore.	Wakefield, John	Ione
3rd yr-176 Belvedere st	Park 1677	3rd yr-1467 Willard st	Park 5111
Scott, Edna	San Francisco	Wallace, Dorrace Glenn	Los Gatos
1st yr-1664 Larkin st		3rd yr-1010 Haight st	Park 5970
Scott, Violet	San Francisco	Walther, William Enos	Sacramento
1st yr-1664 Larkin st		1st yr-502 Stanyan st	Park 5009
Setzer, Ernest Martin	Lodi	Warford, Frederick Sylvester	Oakland
3rd yr-1248 Fifth av	Snst 3261	1st yr-650 Parnassus av	Snst 3173
Shannon, Herbert Loraine	Selma	West, Chalmers E.	Willows
1st yr-272 Carl st	Park 5650	2nd yr-856 Cole st	
Shepherd, Carlton Wise	Bakersfield	West, Sylvan Edmond	Willows
2nd yr-1467 Willard st	Park 5111	2nd yr-1325 Masonic av	
Shottenhamer, Cyril Aloysium	San Jose	Westbay, Clayton	Stockton
2nd yr-1252 First av	Snst 1658	1st yr-1467 Willard st	Park 5111
Sink, John Reed	Cloverdale	Westwood, Willard Smeaton	Oroville
1st yr-1251 Second av	Snst 1810	1st yr-227 Rivoli st	
Smith, Ernest Leroy	Oakland	Wetmore, Harry Larren	San Francisco
2nd yr-2734 E Sixteenth st, O	Fvrl 1008J	1st yr-917 Cole st	
Smith, Lester Lauren	Santa Rosa	Wildanger, Warner Fred	Elk Grove
1st yr-1248 Fifth av	Snst 3261	1st yr-1467 Willard st	Park 5111
Stabler, Arthur Christian	San Francisco	Williams, Roy Oliver	Berkeley
2nd yr-1188 Stanyan st	Mrkt 7480	2nd yr-2010 Virginia st, B	Bkly 6450
Steeves, Percy Ansley	San Jose	Wood, John Lu Rell	Redding
3rd yr-1319A Fourth av		2nd yr-1139 Stanyan st	Mrkt 8480
Stein, Sanford Jacques	San Francisco	Yatabe, Tamotsu	San Francisco
1st yr-146 Seventeenth av	Pac 2778	2nd yr-1843 Union st	West 4653
Steiner, Cecil Caspar	Brawley	Yoshino, Shotaro	San Francisco
1st yr-2520 Howard st		1st yr-1543 Geary st	
Stern, Emil	San Francisco	Young, Francis Willard	San Francisco
2nd yr-185 De Soto st		1st yr-320 Capp st	Mrkt 4897
Strickland, William Harold	San Francisco	Zappettini, Charles James	San Francisco
1st yr-2425 Fillmore st	Flmr 3224	1st yr-1069 Filbert st	Frkn 9299

## 5. CALIFORNIA COLLEGE OF PHARMACY

Abreau, Joseph Leonard	Oakland	Gaskins, Hubert Raymond	Oroville
2nd yr-2010 E Twenty-second st, O		1st yr-770 Cole st	Park 1100
Adamsen, Albert Chandler	Berkeley	Gibson, Charles Alfred	East Auburn
1st yr-2901 Hillegass av, B Bkly 5335W		1st yr-1320 Third av	Snst 1421
Antonopoulos, Peter	Pyrgos, Greece	Gibson, Frederick Linsey	Oakland
1st yr-703 Folsom st		1st yr-564 Twenty-third st, O	Oakd 68
Asselin, Homer L.	San Jose	Godard, Wallace A.	Dayton, Wn.
2nd yr-1159 Masonic av	Mrkt 5555	2nd yr-1003 Stanyan st	
Austin, George Albert	East Auburn	Gondring, Alfred William	Ceres
1st yr-1330 Third av	Snst 1421	1st yr-1250 Forty-first av	Snst 1549
Bagley, Vernon Douglas	Ione	Grigga, Clyde Edward	Exeter
1st yr-2425 Grove st, O	Oakd 4958	1st yr-1283 Second av	Snst 2401
Bailey, Orlo George	Dewitt	Guinn, Norman Clyde	Porterville
1st yr-1832 Second av	Snst 2401	2nd yr-1363 Fifth av	Snst 2343
Berger, James Bourland	Berkeley	Gupta, Sailendra Nath	Calcutta, India
2nd yr-1634 Walnut st, B	Bkly 1730W	2nd yr-1243 Eddy st	
Bock, Frederick K. J.	San Francisco	Gustafson, Elmer L.	Selma
2nd yr-564 Waller st	Park 4829	2nd yr-1363 Fifth av	Snst 2343
Bravin, Roy Richard	Reno, Nev.	Hallford, Carl J.	Porterville
2nd yr-839 Cole st	Mrkt 1033	2nd yr-858 Clayton st	Park 4451
Buffington, Ned	Nevada City	Hammers, Ida M.	Newman
1st yr-90 Casselli av		2nd yr-4353 Twenty-fourth st	Man 5992
Bush, Harold Tartan	Bishop	Hawkins, Clifford F.	Berkeley
1st yr-1550 Page st	Park 7629	2nd yr-1120 Spruce st, B	
Byrne, Joseph Henry	San Francisco	Henle, Edward F.	Woodland
1st yr-83 Dorland av	Mrkt 4426	2nd yr-1550 Page st	Park 7629
Cianciarulo, Joseph Anthony	Oakland	Hermano, Ariston Jacusalem	Jaro, Iloilo, P. I.
1st yr-716 Castro st, O	Lksd 143	1st yr-400 Duboce av	Mrkt 612
Cipperly, Ellsworth Myrl	Modesto	Hutchison, David Roosevelt	Nevada City
2nd yr-2341 Valley st, O	Lksd 1451	1st yr-213 Second av	Pac 7205
Clark, Edwin Ralph	Sacramento	Janssen, Walter August	San Francisco
1st yr-839 Cole st	Mrkt 1033	1st yr-77 Bartlett st	Man 2581
Claubes, Harry Erving	Porterville	Johnson, George W.	Alameda
2nd yr-858 Clayton st	Park 4451	2nd yr-1813 Sherman st, A	Ala 4083
Cox, Everett	Ukiah	Johnston, Edwin Alexander	Berkeley
1st yr-1550 Page st	Park 7629	1st yr-1179 San Pablo av, B	
Davis, Clinton George	Modesto	Kaufman, Simon	San Francisco
2nd yr-1003 Stanyan st		1st yr-457 Fillmore st	
Deacon, Alva Mason	Sunnyvale	Knowlton, Rudolphus Clay	Coquille, Ore.
1st yr-839 Cole st	Mrkt 1033	1st yr-1550 Page st	Park 7629
Donaldson, George T.	Liberty, Mo.	Leoni, Nelson Miles	Hanford
2nd yr-1159 Masonic av	Mrkt 5555	1st yr-2240 Ward st, B	Bkly 4874
Donohue, Zina	Reedsburg, Wis.	McCumber, Lester LeRoy	San Francisco
1st yr-139 Hugo st	Snst 234	2nd yr-615 Cole st	Park 2735
Douglas, Mark Lyle	East Auburn	Matsumura, Kirosh	Oakland
1st yr-1320 Third av	Snst 1421	2nd yr-526 Harrison st, O	Lksd 1737
Doyle, James Paul	San Francisco	Menke, Hugo L.	San Francisco
2nd yr-8351 Twenty-first st		2nd yr-531 Devisadero st	
Farnsworth, Kenneth Frederick	Oakley	Meyers, Roy Alfred	Placerville
1st yr-215 West Clay st	Pac 1797	1st yr-939 Mission st	Sutr 686
Farrin, Greenleaf Norris	Berkeley	Mishkind, Henry	San Francisco
1st yr-1941 Bancroft way, B Bkly 7772J		2nd yr-1590 Ellis st	West 4224
Garbarino, Louis Frank	San Francisco	Mixter, Norbert Wilber	Exeter
1st yr-461 Nineteenth av	Pac 2541	1st yr-1283 Second av	Snst 2401
Garlachs, Oscar LeRoy	Berkeley	Moltzen, Emory J.	Fresno
1st yr-2240 Ward st, B	Bkly 4874	2nd yr-1550 Page st	

Moody, Francis Culbertson	San Francisco	Rutherford, Hugh E.	San Rafael
1st yr-2560 Mission st	Man 5068	2nd yr-459 Fourth st, S R	San Rafael 11
Moody, Willey M.	San Jose	Schuh, George A.	San Jose
1st yr-839 Cole st	Mrkt 1033	1st yr-839 Cole st	Mrkt 1033
Murphy, George F.	Yountville	Seid, Edward E.	San Francisco
8rd yr-1550 Page st	Park 7629	2nd yr-704 Broderick st	West 7636
Murphy, Walter J.	Petaluma	Selv, Hugh Riah	Richmond
2nd yr-1550 Page st	Park 7629	1st yr-800 Bissell av, R	Rehd 313W
Parker, Clifford Aldace	Lindsay	Spellman, James Joseph	San Francisco
1st yr-1243 Willard st	Park 3871	1st yr-1251 Ninth av	Snst 1336
Parks, John LeRoi	Richmond	Spiekerman, Fred Nathaniel	Lodi
8rd yr-732 Barrett av, R	Rchd 104	1st yr-839 Cole st	Mrkt 1033
Pate, Waldo Hays	Paso Robles	Stinson, LaMotte Holmes	Arbuckle
2nd yr-839 Cole st	Mrkt 1033	2nd yr-839 Cole st	Mrkt 1033
Peterson, Alver G.	Hanford	Tostevin, Fred	Eugene, Ore.
1st yr-839 Cole st	Mrkt 1033	1st yr-1283 Second av	Snst 2401
Phelps, Charles Wesley	Wheatland	Turner, Harold C.	Antioch
1st yr-1550 Page st	Park 7629	1st yr-1550 Page st	Park 7629
Pike, Hilda Elizabeth	San Francisco	Tuttle, Oliver Roy	Santa Rosa
1st yr-917 Rhode Island st	Valen 1444	1st yr-373 Fifth av	
Piuma, Joseph Augustino	Los Angeles	Upham, Lester A.	Rio Vista
1st yr-829 Myrtle st, O		2nd yr-1550 Page st	Park 7629
Pruess, E. C.	Paso Robles	Vogelman, Cairns Howard	Modesto
2nd yr-1550 Page st	Park 7629	1st yr-1230 Second av	Snst 2157
Reis, Charles	San Francisco	Wada, George T.	Los Angeles
2nd yr-536 Shrader st	Park 3041	1st yr-1500 Post st	
Reynolds, Otto Warren	East Auburn	Walker, James Herbert	San Jose
1st yr-1320 Third av	Snst 1421	1st yr-1550 Page st	Park 7629
Ring, Ainsley Meredith	Ferndale	Whitley, Irad Vincent	Red Bluff
2nd yr-1368 Fifth av	Snst 2343	2nd yr-839 Cole st	Mrkt 1033
Rogers, Harold L.	Modesto	Williams, George Versell	Fortuna
2nd yr-1550 Page st		1st yr-1283 Second av	Snst 2401
Roper, Foster Richardson	Napa	Wyckoff, Emory Z.	Napa
1st yr-839 Cole st	Mrkt 1033	2nd yr-839 Cole st	Mrkt 1033
Russell, John R.	Santa Rosa	Zimmerman, Justus Enos	Porterville
2nd yr-1427 Octavia st	West 3502	1st yr-1239½ Seventh av	

STATISTICAL SUMMARY

A. Students in the Depts. at Berkeley—	First half- year only	Second half-year only	Both half-years	Total first half-year	Total second half-year	Total for the year
<b>Fall and Spring Sessions:</b>						
Graduate .....	240	172	671	911	843	1083
Undergraduate .....	714	497	4486	5200	4983	5697
						6780
<b>Summer Session, 1916:</b>						3922
<b>University Farm:</b>						
Graduate .....	—	3	—	—	3	3
Undergraduate .....	—	83	—	—	83	83
						86
<b>B. Students in the Depts. in San Fran- cisco and Los Angeles—</b>						
<b>Hastings College of the Law:</b>						
.....	0	0	99	99	99	— 99
<b>Medical School—</b>						
First two Years (in Berkeley):.....	12	1	65	77	66	78
Last two years (in SF):	0	0	48	48	48	48
						126
<b>Los Angeles Medical Dept.: .....</b>	0	0	48	48	48	— 48
<b>College of Dentistry:</b>	5	1	160	174	170	— 175
<b>College of Pharmacy:</b>	12	1	113	125	114	— 126
<b>Total .....</b>	983	758	5699	6682	6457	— 11,362
<b>Deduct for names entered more than once:</b>						
Graduate students who received their degrees as undergraduates in December, 1916						56
Students at the University Farm, listed also in the colleges at Berkeley .....						86
Students in the Hastings College of the Law, listed also in the colleges at Berkeley						3
Students in the Medical School listed also in the colleges at Berkeley .....						78
Students in the Summer Session, 1916, registered also in the fall session, 1916 .....						814
						1037
<b>Total, duplicates deducted, and not including students in extension courses, the short courses in Agriculture, the University Farm School, or the California School of Fine Arts .....</b>						10,325
<b>Officers of instruction and administration.....</b>						1078

## FRATERNITIES AND CLUBS

## MEN

Abracadabra 2616 Virginia st	Bkly 6716	Nalanda 2026 Center st	Bkly 2503J
Acacia Fraternity 2634 Bancroft way	Bkly 6744	Orond 2427 Channing way	Bkly 7325
Achaean 2521 Channing way	Bkly 5831	Phi Delta Theta 2717 Hearst av	Bkly 5770
Alpha Chi Sigma 2600 Bancroft way	Bkly 6819	Phi Gamma Delta 2620 Bancroft way	Bkly 888
Alpha Delta Phi 2400 Bancroft way	Bkly 78	Phi Kappa Psi 2625 Hearst av	Bkly 7614
Alpha Kappa Lambda 2701 Hearst av	Bkly 2421	Phi Kappa Sigma 1726 Euclid av	Bkly 6706
Alpha Sigma Phi 2614 Dwight way	Bkly 1276	Phi Sigma Kappa 2330 College av	Bkly 5098
Alpha Tau Omega 2425 LeConte av	Bkly 4334	Pi Kappa Alpha 2646 Dwight way	Bkly 4104
Bachelordron 2338 College av	Bkly 1722 Bkly 1723	Pi Kappa Phi 2418 College av	Bkly 4440
Beta Theta Pi 2607 Hearst av	Bkly 5913 Bkly 5914	Psi Upsilon 1815 Highland pl	Bkly 1682
Chi Phi 2529 Hearst av	Bkly 40	Sequoyah 2528 Ridge rd	Bkly 3277 Bkly 3278
Chi Psi 2521 Hearst av	Bkly 708 Bkly 709	Sigma Alpha Epsilon 2519 Ridge rd	Bkly 1416
Dahlonaga 2500 College av	Bkly 5941	Sigma Chi 2345 College av	Bkly 62
Del Rey 2600 Durant av	Bkly 2598	Sigma Nu 2610 Durant av	Bkly 7804
Delta Chi 2200 Piedmont av	Bkly 6760	Sigma Phi 2426 Virginia st	Bkly 3472
Delta Kappa Epsilon 2330 Telegraph av	Bkly 4429	Sigma Phi Epsilon 1711 Euclid av	Bkly 9302
Delta Sigma Phi 2332 College av	Bkly 1134 Bkly 1135	Sigma Phi Sigma 2316 Bowditch st	Bkly 6504
Delta Tau Delta 2601 Durant av	Bkly 23	Sigma Pi 2627 Ridge rd	Bkly 2541 Bkly 8247
Delta Upsilon 2601 Channing way	Bkly 5904	Theta Chi 2617 Durant av	Bkly 373
Dwight 2520 Virginia st	Bkly 2608	Theta Delta Chi 2647 Durant av	Bkly 102 Bkly 103
Japanese Student Club 2308 Virginia st	Bkly 6441	Theta Xi 1730 LaLoma av	Bkly 8716
Kappa Alpha 2501 Ridge rd	Bkly 1335	Tillicum 2605 Durant av	Bkly 552
Kappa Sigma 2522 Ridge rd	Bkly 5950	Zeta Psi 2251 College av	Bkly 9107
Lambda Chi Alpha 2428 College av	Bkly 4748		



**WOMEN**

Aldebaran 2519 Hillegass av	Bkly 477	Delta Gamma 2710 Channing way	Bkly 9520
Al Khalail 2736 Haste st	Bkly 8680	Delta Zeta 2821 Bancroft way	Bkly 1765
Alpha Chi Omega 2421 Le Conte av	Bkly 3062	Gamma Phi Beta 2732 Channing way	Bkly 9317
Alpha Delta Pi 2400 Piedmont av	Bkly 5224	Kappa Alpha Theta 2723 Durant av	Bkly 9531
Alpha Gamma Delta 2505 College av	Bkly 808	Kappa Kappa Gamma 2725 Channing way	Bkly 7950
Alpha Omicron Pi 2721 Haste st	Bkly 8800	Mekatina 2485 Hilgard av	Bkly 6406
Alpha Phi 2714 Ridge rd	Bkly 9098	Norroena 1736 Oxford st	Bkly 7247
Alpha Xi Delta 2749 Dwight way	Bkly 204	Phi Mu 2429 Channing way	Bkly 4648
Chi Omega 1700 Euclid av	Bkly 1625	Pi Beta Phi 2709 Channing way	Bkly 8528
Copa de Oro 2718 Haste st	Bkly 2148	Rediviva 2526 Hilgard av	Bkly 1441
Delta Delta Delta 1715 LeRoy av	Bkly 2851	Sigma Kappa 2401 Durant av	Bkly 6681
		Zeta Tau Alpha 2702 Virginia st	Bkly 6789

## GUIDE TO TELEPHONES IN BERKELEY

Addison st,	1719—Berkeley 3758W 1730—Berkeley 122W 1884—Berkeley 7244J	Ashby av,	2219—Berkeley 1063 2247—Berkeley 8898W 2422—Berkeley 7252J
The Alameda,	6—Berkeley 8306 747—Berkeley 8093J		2502—Berkeley 7511W 2504—Berkeley 6878W 2508—Berkeley 7511J
Alcatraz av,	2714—Piedmont 3404 2724—Piedmont 2430W		2619—Berkeley 1252W 2639—Berkeley 2168 2801—Berkeley 1863
Allston way,	1141—Berkeley 2876J 1735—Berkeley 6872W 2001—Berkeley 6710 2428—Berkeley 6361W		2909—Berkeley 2918W 2925—Berkeley 2424 2200—Berkeley 4208W
Alvarado rd,	18—Berkeley 5977	Atherton st,	2206—Berkeley 4208J 2207—Berkeley 9144W 2210—Berkeley 4698
Amador av,	1148—Berkeley 2110 1160—Berkeley 2915 1131—Berkeley 2255J		2211—Berkeley 2744W 2213—Berkeley 9368 2219—Berkeley 2252W
Arch st,	1192—Berkeley 1050 1320—Berkeley 4424J 1325—Berkeley 5958J 1340—Berkeley 1078 1345—Berkeley 5261 1401—Berkeley 2238 1409—Berkeley 1972J 1411—Berkeley 1287 1422—Berkeley 487 1425—Berkeley 4665J 1431—Berkeley 7605J 1500—Berkeley 2232W 1511—Berkeley 1846 1520—Berkeley 1064 1522—Berkeley 3695 1531—Berkeley 375 1531A—Berkeley 2614W 1538—Berkeley 2282J 1534—Berkeley 2230 1600—Berkeley 4093 1608—Berkeley 6444 1610—Berkeley 5990W 1615—Berkeley 1235 1618—Berkeley 7740W 1620—Berkeley 8651W 1625—Berkeley 4808J 1633—Berkeley 5846 1650—Berkeley 3980 1710—Berkeley 4439 1712—Berkeley 871 1728—Berkeley 965 1833—Berkeley 8379J		2221—Berkeley 2035J 2223—Berkeley 6680 2226—Berkeley 5479J 2237—Berkeley 4968 2246—Berkeley 5479W 2407—Berkeley 3330 2420—Berkeley 2919W 2422—Berkeley 3004
		Bancroft way,	1631—Berkeley 3682 1733—Berkeley 3290 1845—Berkeley 2042 1919—Berkeley 6342J 2038—Berkeley 6830W 2118—Berkeley 6129 2123—Berkeley 7351 2212—Berkeley 6391W 2213—Berkeley 1238 2214—Berkeley 1431W 2222—Berkeley 6475 2233—Berkeley 4106 2247—Berkeley 7429 2305—Berkeley 7461 2309—Berkeley 7877 2311—Berkeley 214 2313—Berkeley 1238 2315—Berkeley 8666W 2320—Berkeley 1358J 2320A—Berkeley 2465W 2327—Berkeley 5816 2400—Berkeley 78 2406—Berkeley 6428 2408—Berkeley 4443J 2410—Berkeley 4443W 2410B—Berkeley 2479 2413—Berkeley 3493
Arden rd,	30—Berkeley 2221 47—Berkeley 1209J		
Arlington av,	722—Berkeley 2209W 852—Berkeley 8539 873—Berkeley 7347 929—Berkeley 2624		

**Bancroft way,** 2417—Berkeley 3720W  
 2417A—Berkeley 6876W  
 2417B—Berkeley 6504  
 2425—Berkeley 1743  
 2430—Berkeley 4811  
 2500—Berkeley 1848  
 2518—Berkeley 5062J  
 2530—Berkeley 5185  
 2532—Berkeley 8012  
 2534—Berkeley 2596J  
 2536—Berkeley 7997  
 2590—Berkeley 2596W  
 2600—Berkeley 6819  
 2606—Berkeley 2617  
 2620—Berkeley 888  
 2630—Berkeley 8469W  
 2634—Berkeley 6744  
 2642—Berkeley 653  
 2700—Berkeley 8570  
 2722—Berkeley 1278  
 2723—Berkeley 3891  
 2728—Berkeley 1892  
 2821—Berkeley 1765  
 2827—Berkeley 7712W  
 2833—Berkeley 8118  
 640—Berkeley 5576  
**Bay av,** 1307—Berkeley 3031  
**Bay View pl,** 1321—Berkeley 404  
**Belrose av,** 2728—Berkeley 3434  
 2730—Berkeley 3761  
**Benvenue av,** 2517—Berkeley 3142W  
 2525—Berkeley 5213J  
 2536—Berkeley 6590W  
 2537—Berkeley 3142J  
 2540—Berkeley 4742  
 2550—Berkeley 2428J  
 2553—Berkeley 6410J  
 2603—Berkeley 5358J  
 2606—Berkeley 2297W  
 2608—Berkeley 2295J  
 2612—Berkeley 344  
 2620—Berkeley 7380W  
 2625—Berkeley 7264J  
 2626—Berkeley 4895W  
 2630—Berkeley 3483J  
 2645—Berkeley 6291J  
 2700—Berkeley 26W  
 2701—Berkeley 1442W  
 2705—Berkeley 2175W  
 2709—Berkeley 2175J  
 2714—Berkeley 6370  
 2723—Berkeley 2046J  
 2728—Berkeley 4317  
 2731—Berkeley 2046W  
 2793—Berkeley 5274W  
 2804—Berkeley 6786W  
 2811—Berkeley 7692  
 2818—Berkeley 302  
 2830—Berkeley 3026  
 2831—Berkeley 6848  
 2885—Berkeley 6215W

**Benvenue av,** 2906—Berkeley 611J  
 2915—Berkeley 8612J  
 2929—Berkeley 5048W  
 2930—Berkeley 8099J  
 3015—Berkeley 3657J  
 3016—Berkeley 2917J  
 3051—Berkeley 6650J  
 3100—Berkeley 2854  
**Berkeley way,** 1811—Berkeley 2904  
 1934—Berkeley 7635  
 2029—Berkeley 6821W  
 2119—Berkeley 3728W  
 2137—Berkeley 112W  
 2141—Berkeley 4270  
**Berryman st,** 1840—Berkeley 8150W  
 1905—Berkeley 4021J  
 1933—Berkeley 2829  
 1935—Berkeley 2489J  
 1941—Berkeley 5301W  
 2033—Berkeley 6087W  
 2043—Berkeley 5144  
**Blake st,** 1722—Berkeley 6631  
 2036—Berkeley 8958W  
 2131—Berkeley 7795J  
 2149—Berkeley 7184J  
 2216—Berkeley 8080  
 2232—Berkeley 1069W  
 2239—Berkeley 3184  
 2320—Berkeley 3180W  
 2328—Berkeley 8395J  
 2417—Berkeley 6976  
 1227—Berkeley 8251  
**Bonita av,** 1331—Berkeley 5857J  
 1410—Berkeley 4015  
 1441—Berkeley 5016W  
 1537—Berkeley 4450W  
 1609—Berkeley 2117J  
 1610—Berkeley 68  
 1615—Berkeley 797  
 1633—Berkeley 8382  
 1900—Berkeley 996W  
**Bowditch st,** 2309—Berkeley 4690  
 2310—Berkeley 8325W  
 2311—Berkeley 7037W  
 2316—Berkeley 6504  
 2323—Berkeley 1883  
 2328—Berkeley 6201J  
 2334—Berkeley 1358W  
 2401—Berkeley 1908  
 2407—Berkeley 1241J  
 2409—Berkeley 3460J  
 2415—Berkeley 2951  
 2430—Berkeley 396J  
 2434—Berkeley 6384  
 2442—Berkeley 4991J  
**Bridge rd,** 19—Berkeley 8028  
 22—Berkeley 9145W  
**Brookside,** 38—Berkeley 5711W  
**Buena Vista way,** 2510—Berkeley 2890W  
 2538—Berkeley 5027W  
 2539—Berkeley 714

Buena Vista way,	2540—Berkeley 4178J	Center st,	2026—Berkeley 2508J
	2541—Berkeley 2259J		2117—Berkeley 6521
	2544—Berkeley 5108J		2148—Berkeley 276
	2558—Berkeley 4014		2162—Berkeley 2875W
	2560—Berkeley 6825W	Channing way	1715—Berkeley 7282J
	2563—Berkeley 3939W		1732—Berkeley 6489
	2566—Berkeley 3244W		1734—Berkeley 1688W
	2577—Berkeley 1514		1737—Berkeley 8609J
	2579—Berkeley 870		1924—Berkeley 4210
	2590—Berkeley 824		2001—Berkeley 315
	2596—Berkeley 3939J		2011—Berkeley 644
	2598—Berkeley 3866		2021—Berkeley 663
	2729—Berkeley 8724		2023—Berkeley 7556
			2033—Berkeley 3956W
			2118—Berkeley 4819
			2119—Berkeley 7449
Bushnell pl,	1735—Berkeley 7292		2120—Berkeley 3553W
	1742—Berkeley 3407		2214—Berkeley 8668J
	1750—Berkeley 841		2216—Berkeley 5631
	1800—Berkeley 3239		2219—Berkeley 8668W
California st,	3116—Berkeley 3935W		2231—Berkeley 8515
	9—Berkeley 2893		2247—Berkeley 1678
	15—Berkeley 1060		2314—Berkeley 6041W
	33—Berkeley 7894		2329—Berkeley 5893J
	49—Berkeley 5799		2401—Berkeley 3334
Canyon rd,	55—Berkeley 5354		2414—Berkeley 244J
			2416—Berkeley 3007J
			2420—Berkeley 1766
			2422—Berkeley 4666
			2424—Berkeley 734
Carlotta st,	1243—Berkeley 5050J		2427—Berkeley 7253
			2428—Berkeley 6408
			2429—Berkeley 4648
			2436—Berkeley 8286W
			2445—Berkeley 7068J
			2510—Berkeley 5414J
			2511—Berkeley 3121J
			2521—Berkeley 5831
			2527—Berkeley 3121W
			2529—Berkeley 3125W
			2531—Berkeley 7068W
			2585—Berkeley 6201W
			2601—Berkeley 5904
Carlton st,	1720—Berkeley 6002W		2616—Berkeley 2905
	1739—Berkeley 5540		2624—Berkeley 3827W
	1801—Berkeley 8073		2626—Berkeley 3021W
	2131—Berkeley 5737W		2627—Berkeley 6928W
	2229—Berkeley 1069J		2630—Berkeley 2761W
	2231—Berkeley 8438W		2632—Berkeley 731W
	2237—Berkeley 2154		2636—Berkeley 861
	2315—Berkeley 1573		2639—Berkeley 845
	2329—Berkeley 1673		2641—Berkeley 2276J
	2330—Berkeley 6211		2643—Berkeley 2276W
	2334—Berkeley 2478W		2700—Berkeley 5876
	2417—Berkeley 2725		2704—Berkeley 8352
	2421—Berkeley 2065		2708—Berkeley 1832
Carrison st,	2447—Berkeley 6531W		2709—Berkeley 8528
	2571—Berkeley 8240W		2710—Berkeley 9520
			2721—Berkeley 1577
			2725—Berkeley 7950
Cedar st,	1231—Berkeley 8753		
	1717—Berkeley 4223		
	1803—Berkeley 2084		
	1833—Berkeley 4098W		
	1836—Berkeley 6698W		
	2006—Berkeley 8234W		
	2008—Berkeley 7167W		
	2011—Berkeley 4630W		
	2019—Berkeley 1988W		
	2314—Berkeley 2715J		
	2322—Berkeley 2048		
	2404—Berkeley 8443J		
	2509—Berkeley 6116		
	2520—Berkeley 2314		
	2525—Berkeley 5278		
	2617—Berkeley 2002W		
	2620—Berkeley 1466W		
	2639—Berkeley 2002J		
	2695—Berkeley 538		

Ohanning way,	2728—Berkeley 1286	College av,	2510—Berkeley 6242W
	2732—Berkeley 9817		2514—Berkeley 5146J
	2815—Berkeley 1611J		2515—Berkeley 7344W
	2901—Berkeley 1778		2517—Berkeley 436J
	2908—Berkeley 2677		2519—Berkeley 2657
Chapel st,	2203—Berkeley 8791		2522—Berkeley 436W
	2210—Berkeley 6037J		2525—Berkeley 5596W
	2223—Berkeley 2708		2529—Berkeley 7875W
	2223½—Berkeley 5763		2530—Berkeley 2840
	2226—Berkeley 879		2535—Berkeley 4919
	2228—Berkeley 9078W		2536—Berkeley 1974
	2229—Berkeley 1642		2539—Berkeley 6715
	2280—Berkeley 1247		2609—Berkeley 1790W
	2235½—Berkeley 3196J		2617—Berkeley 1649
Cherry st,	2804—Berkeley 6145W		2618½—Berkeley 4211J
Chilton way,	2528—Berkeley 3458J		2631—Berkeley 467W
	2533—Berkeley 6267		2634—Berkeley 1497
	2535—Berkeley 6911J		2635—Berkeley 7817W
	2542—Berkeley 2136		2700—Berkeley 1442J
	2546—Berkeley 691J		2708—Berkeley 3887
Claremont blvd,	2701—Berkeley 6030		2709—Berkeley 5140W
	2715—Berkeley 785W		2712—Berkeley 6968
	2717—Berkeley 8008		2740—Berkeley 4997J
	2811—Berkeley 5676W		2811—Berkeley 6915J
	2840—Berkeley 59		2814—Berkeley 3729
	2942—Berkeley 3890		2816—Berkeley 6915W
	2985—Berkeley 450		2822—Berkeley 5110J
	3304—Piedmont 1572J		2824—Berkeley 5110W
Colby st,	3009—Berkeley 4771W		2952—Berkeley 7162W
	3010—Berkeley 7136W		3011—Berkeley 6059
College av,	2225—Berkeley 7035		3050—Berkeley 3064
	2231—Berkeley 888		3121—Piedmont 4152J
	2241—Berkeley 1139W		3132—Piedmont 6215W
	2247—Berkeley 3209		3136—Piedmont 4607W
	2249—Berkeley 7436		3144—Piedmont 4575
	2251—Berkeley 9107		3151—Piedmont 1547J
	2310—Berkeley 4126J	Colusa av,	1106—Berkeley 8241
	2319—Berkeley 2212		1201—Berkeley 7403
	2323—Berkeley 3590W	Contra Costa av,	816—Berkeley 7911J
	2330—Berkeley 5098		840—Berkeley 840
	2332—Berkeley 1134	Cragmont av,	2327—Berkeley 2925W
	Berkeley 1135	Curtis st,	1032—Berkeley 8319
	2333—Berkeley 1722	Dana st,	2218—Berkeley 3267
	2345—Berkeley 62		2223—Berkeley 5621W
	Berkeley 63		2224—Berkeley 6656
	2400—Berkeley 7714W		2227—Berkeley 1652W
	2415—Berkeley 5115		2228—Berkeley 1053
	2416—Berkeley 8476J		2231—Berkeley 6361J
	2418—Berkeley 4440		2235—Berkeley 4216
	Berkeley 2537J		2400—Berkeley 2388
	2420—Berkeley 8391		2406—Berkeley 7713
	2425—Berkeley 1165		2414—Berkeley 4035
	Berkeley 8677		2418—Berkeley 3814
	2428—Berkeley 4748		2431—Berkeley 547W
	2432—Berkeley 6102J		2518—Berkeley 8750J
	Berkeley 2627W		2521—Berkeley 3037
	2435—Berkeley 5557		2546—Berkeley 1613
	2500—Berkeley 5941		2604—Berkeley 7421W
	2505—Berkeley 808		2614—Berkeley 8982J
	2506—Berkeley 4387		2622—Berkeley 2739J
	2509—Berkeley 7344J		2638—Berkeley 7361

Dana st,	2700—Berkeley 1690	Durant av,	2287—Berkeley 1953J
	2708—Berkeley 1291J		2301—Berkeley 130
	2711—Berkeley 3858W		2315—Berkeley 105W
Deakin st,	2912—Berkeley 4678		2317—Berkeley 1270
	3025—Berkeley 4388J		2318—Berkeley 1966
	3035—Berkeley 7322		2330—Berkeley 2045
	3039—Berkeley 565		Berkeley 4429
Delaware st,	831—Berkeley 7324		2334—Berkeley 3485
	1218—Berkeley 8556		2400—Berkeley 7954
	1811—Berkeley 1266		2401—Berkeley 6681
	1828—Berkeley 9030W	Durant av,	2411—Berkeley 474
	1942—Berkeley 7071W		2415—Berkeley 1712
	2017—Berkeley 8685		2416—Berkeley 285CW
	2020—Berkeley 3944		2416½—Berkeley 8537
	2027—Berkeley 3712		2419—Berkeley 3362
	2033—Berkeley 6619		2420—Berkeley 8757J
	2113½—Berkeley 5689J		2422—Berkeley 136J
	2115—Berkeley 7535		2425—Berkeley 1503J
Derby st,	2132—Berkeley 6416J		2427—Berkeley 4521J
	2138—Berkeley 6217J		2436—Berkeley 6780J
	2143—Berkeley 5885J		2511—Berkeley 6081W
	2208—Berkeley 8105		2519—Berkeley 8543
	2223—Berkeley 2305		2519½—Berkeley 8705W
	2436—Berkeley 3647		2520—Berkeley 1675
	2454—Berkeley 1907W		2521—Berkeley 3437
	2515—Berkeley 3883J		2526—Berkeley 462
	2517—Berkeley 4848J		251—Berkeley 665
	2610—Berkeley 6588J		25½—Berkeley 8361W
	2642—Berkeley 8285		2542—Berkeley 8873
	2713—Berkeley 3260		2600—Berkeley 2593
	2717—Berkeley 7178W		2601—Berkeley 23
	2720—Berkeley 4083		2605—Berkeley 552
	2730—Berkeley 3862		2610—Berkeley 7804
	2735—Berkeley 1877W		2611—Berkeley 4525W
	2740—Berkeley 206W		2613—Berkeley 1055W
	2742—Berkeley 367J		2617—Berkeley 373
	2743—Berkeley 1469W		2618—Berkeley 8858
	2816—Berkeley 1716		2620—Berkeley 7910
	2836—Berkeley 6959W		2626—Berkeley 1289
	2848—Berkeley 5076W		2628—Berkeley 4772
	2922—Berkeley 3262J		2630—Berkeley 157
Durant av,	2001—Berkeley 1622		2632—Berkeley 5137
	2010—Berkeley 3940		2638—Berkeley 4126W
	2019—Berkeley 1211		2644—Berkeley 2589
	2032—Berkeley 8829J		2647—Berkeley 103
	2034—Berkeley 6939W		Berkeley 102
	2112—Berkeley 7751		2710—Berkeley 7780W
	2114—Berkeley 7426J		2714—Berkeley 6694W
	2115—Berkeley 1624		2723—Berkeley 9531
	2115A—Berkeley 7073J		2727—Berkeley 7568J
	2121—Berkeley 3461		2731—Berkeley 7386
	2200—Berkeley 140W	Dwight way,	1621—Berkeley 9371J
	2204—Berkeley 1802W		1909—Berkeley 5356W
	2208—Berkeley 3170		2107—Berkeley 5976W
	2211—Berkeley 141W		2163—Berkeley 4468W
	2218—Berkeley 1934		2204—Berkeley 8856
	2223—Berkeley 1191		2218—Berkeley 5845W
	2230—Berkeley 5987		2216—Berkeley 3745
	2235—Berkeley 7929		2221—Berkeley 464
	2236—Berkeley 7965		2227—Berkeley 7711
	Berkeley 3492W		2239—Berkeley 1455J

Dwight way,	2802—Berkeley 4920J 2815—Berkeley 4026 2328—Berkeley 1357J 2329—Berkeley 719W 2331—Berkeley 2914J 2333—Berkeley 5374W 2335—Berkeley 8086 2409—Berkeley 6107W 2415—Berkeley 9025W 2431—Berkeley 5587J 2439—Berkeley 4160J 2511—Berkeley 7079 2521—Berkeley 6646W 2522—Berkeley 6646J 2523—Berkeley 1027J 2525—Berkeley 7693W 2538—Berkeley 1645W 2541—Berkeley 6628W 2547—Berkeley 6432J 2551—Berkeley 3688W 2571—Berkeley 7079 2606—Berkeley 139 2610—Berkeley 750W 2614—Berkeley 1276 2627—Berkeley 2566W 2636—Berkeley 279W 2644—Berkeley 2588 2646—Berkeley 4104 2703—Berkeley 3629W 2727—Berkeley 3270 2731—Berkeley 8665W 2739—Berkeley 5392J 2741—Berkeley 1281 2749—Berkeley 204 8001—Berkeley 1460J 1511—Berkeley 2270W 1537—Berkeley 7775J	Ellsworth st,	2607—Berkeley 4878J 2609—Berkeley 4873W 2734—Berkeley 5749W 2739—Berkeley 829J 2808—Berkeley 4462 2710—Berkeley 6351 2725—Berkeley 6189J 2729—Berkeley 507 2740—Berkeley 8408J 2750—Berkeley 5408W 2910—Berkeley 4416J 2947—Berkeley 3228 5—Berkeley 8974 2504—Berkeley 6510J 2510—Berkeley 4729W 2512—Berkeley 4729J 2516—Berkeley 8619J 2518—Berkeley 4975 2523—Berkeley 3323J 2530—Berkeley 2243W 2533—Berkeley 3323J 2535—Berkeley 955 2536—Berkeley 7485W 2546—Berkeley 5068J 2600—Berkeley 7229 2604—Berkeley 5602 2605—Berkeley 4563J 2611—Berkeley 4584 2616—Berkeley 1059 2619—Berkeley 2268 2636—Berkeley 7455 2644—Berkeley 9111W 15—Berkeley 4048J 3114—Piedmont 1572W 3127—Piedmont 288W 86—Berkeley 288
Edith st,	11—Berkeley 6798 40—Berkeley 7867J 46—Berkeley 1760 102—Berkeley 4877	Elmwood av,	1256—Berkeley 8068W 1267—Berkeley 8115J 1415—Berkeley 6541 1494—Berkeley 8090W 1500—Berkeley 4702 1515—Berkeley 2923W 1520—Berkeley 4606W 1545A—Berkeley 5086J 1546—Berkeley 2743 1547—Berkeley 5531 1629—Berkeley 2094W 1631—Berkeley 9035W 1632—Berkeley 3581J 1641—Berkeley 2401 1643—Berkeley 2094J 1700—Berkeley 1625 1701—Berkeley 2092J 1707—Berkeley 4072 1711—Berkeley 9306 1712—Berkeley 2015 1720—Berkeley 1752 1726—Berkeley 6706 1739—Berkeley 493 1803—Berkeley 2971 1809—Berkeley 1615
El Camino Real,	1910—Berkeley 5663 1922—Berkeley 2396 1929—Berkeley 5089 1980—Berkeley 5588 1942—Berkeley 7458	Encina pl, Etna st,	2201—Berkeley 6037W 2211—Berkeley 5496W 2216—Berkeley 9144J 2217—Berkeley 6822J 2219—Berkeley 1468J 2233—Berkeley 295W 2238—Berkeley 4230 2247—Berkeley 7429 2309—Berkeley 1118 2341—Berkeley 2782J 2507—Berkeley 6216 2530—Berkeley 3990 2538—Berkeley 1174 2541—Berkeley 1799 2550—Berkeley 3647
El Dorado av,	2201—Berkeley 6037W 2211—Berkeley 5496W 2216—Berkeley 9144J 2217—Berkeley 6822J 2219—Berkeley 1468J 2233—Berkeley 295W 2238—Berkeley 4230 2247—Berkeley 7429 2309—Berkeley 1118 2341—Berkeley 2782J 2507—Berkeley 6216 2530—Berkeley 3990 2538—Berkeley 1174 2541—Berkeley 1799 2550—Berkeley 3647	Eton Court, Eton av,	2201—Berkeley 6037W 2211—Berkeley 5496W 2216—Berkeley 9144J 2217—Berkeley 6822J 2219—Berkeley 1468J 2233—Berkeley 295W 2238—Berkeley 4230 2247—Berkeley 7429 2309—Berkeley 1118 2341—Berkeley 2782J 2507—Berkeley 6216 2530—Berkeley 3990 2538—Berkeley 1174 2541—Berkeley 1799 2550—Berkeley 3647
Ellsworth st,	2201—Berkeley 6037W 2211—Berkeley 5496W 2216—Berkeley 9144J 2217—Berkeley 6822J 2219—Berkeley 1468J 2233—Berkeley 295W 2238—Berkeley 4230 2247—Berkeley 7429 2309—Berkeley 1118 2341—Berkeley 2782J 2507—Berkeley 6216 2530—Berkeley 3990 2538—Berkeley 1174 2541—Berkeley 1799 2550—Berkeley 3647	Eucalyptus rd, Euclid av,	2201—Berkeley 6037W 2211—Berkeley 5496W 2216—Berkeley 9144J 2217—Berkeley 6822J 2219—Berkeley 1468J 2233—Berkeley 295W 2238—Berkeley 4230 2247—Berkeley 7429 2309—Berkeley 1118 2341—Berkeley 2782J 2507—Berkeley 6216 2530—Berkeley 3990 2538—Berkeley 1174 2541—Berkeley 1799 2550—Berkeley 3647

Eunice st,	2201—Berkeley 6865W	Grant st,	1740—Berkeley 7367
	2210—Berkeley 4957J		1938—Berkeley 7985J
	2233—Berkeley 2830W		2011—Berkeley 9018J
	2247—Berkeley 6881		2214—Berkeley 4517
	2337—Berkeley 1998		2215—Berkeley 356
	2342—Berkeley 7707		2408—Berkeley 1628
Faculty Club,	Berkeley 2855		2534—Berkeley 920
Fairview st,	1868—Piedmont 6528	Greenwood ter,	1434—Berkeley 5603
Folger av,	1089—Berkeley 7212	Grove st,	1232—Berkeley 3396
Forest av,	2713—Berkeley 904		1240—Berkeley 4511W
	2725—Berkeley 4187W		1241—Berkeley 7784
	2729—Berkeley 3484W		1343—Berkeley 9331
	2734—Berkeley 3484J		1613—Berkeley 6329J
	2738—Berkeley 6773W		1628—Berkeley 7810
	2921—Berkeley 3262W		1812—Berkeley 5359J
Francisco st,	1209—Berkeley 2736		1919—Berkeley 7608W
	2022—Berkeley 1304		1920—Berkeley 188
	2037—Berkeley 6681		2112—Berkeley 3654W
	2041—Berkeley 5170		2236—Berkeley 1420
Fresno av,	928—Berkeley 8875		2241—Berkeley 4788W
Fulton st,	1822—Piedmont 2825J		2314—Berkeley 6883J
	2211—Berkeley 6045W		2328—Berkeley 7269
	2215—Berkeley 6045J		2609—Berkeley 826
	2217—Berkeley 3810		2716—Berkeley 7242J
	2246—Berkeley 9023		3006—Berkeley 6943
	2248—Berkeley 266J		3012—Berkeley 4734J
	2250—Berkeley 8284	Harper st,	3035—Berkeley 3040W
	2305—Berkeley 5040	Harte st,	2561—Berkeley 4758W
	2309—Berkeley 3459W	Haste st,	1945—Berkeley 2054
	2333—Berkeley 5229W		2001—Berkeley 6213
	2405—Berkeley 8885J		2131—Berkeley 3401
	2407—Berkeley 1112W		2226—Berkeley 4227
	2410—Berkeley 5768W		2232—Berkeley 149W
	2516—Berkeley 7170		2236—Berkeley 5750J
	2537—Berkeley 3055		2237—Berkeley 5338
	2537½—Berkeley 1454W		2309—Berkeley 5499W
	2538—Berkeley 6993J		2314—Berkeley 4026
	2540—Berkeley 1039J		2317—Berkeley 4862
	2634—Berkeley 8605		2319½—Berkeley 3972W
	2702—Berkeley 1867J		2323—Berkeley 4708
	2703—Berkeley 4458		2330—Berkeley 423
	2743—Berkeley 4256		2335—Berkeley 8518W
	2805—Berkeley 2186		2400—Berkeley 4596
	2809—Berkeley 8269		2427—Berkeley 6596
Garber st,	2822—Berkeley 5469J		2428—Berkeley 5587W
	2826—Berkeley 3058		2435—Berkeley 2279W
	2830—Berkeley 1119W		2438—Berkeley 3053W
	2834—Berkeley 2823		2440—Berkeley 4160W
	2836—Berkeley 8562J		2442—Berkeley 5418
	2905—Berkeley 3557J		2508—Berkeley 2075
	2916—Berkeley 6260		2514—Berkeley 3563W
	2917—Berkeley 1228J		2520—Berkeley 2463
	2925—Berkeley 2025W		2548—Berkeley 4999J
	2927—Berkeley 5039J		2552—Berkeley 2405
Glen av,	2201—Berkeley 596		2612—Berkeley 2566J
	2249—Berkeley 1062J		2614—Berkeley 1507J
	2318—Berkeley 3614W		2617—Berkeley 5077W
Grant st,	1403—Berkeley 8436J		2618—Berkeley 6102W
	1507—Berkeley 982		2620—Berkeley 2351
	1710—Berkeley 5425W		2621—Berkeley 2044J
			2624—Berkeley 7418W



Haste st.

2626—Berkeley 6859W  
2627—Berkeley 906W  
2629—Berkeley 3287  
2680—Berkeley 7153W  
2682—Berkeley 7418J  
2686—Berkeley 1144W  
2713—Berkeley 2148  
2717—Berkeley 5077W  
2721—Berkeley 8800  
2728—Berkeley 5892W  
2780—Berkeley 8769J  
2736—Berkeley 8680

Hawthorne ter.

1404—Berkeley 2407W  
1406—Berkeley 4823J  
1421—Berkeley 8327  
1427—Berkeley 7580  
1429—Berkeley 6420J  
1520—Berkeley 1120  
1529—Berkeley 1822  
1539—Berkeley 5009J  
1540—Berkeley 8854J  
1541—Berkeley 8838

Hearst av.

1821—Berkeley 6285W  
1824—Berkeley 2194  
1825—Berkeley 5859W  
1935—Berkeley 3199  
2011—Berkeley 6627W  
2015—Berkeley 1913W  
2019—Berkeley 7315W  
2032—Berkeley 6892  
2040—Berkeley 6651J  
2106—Berkeley 8723J  
2110—Berkeley 1908  
2115—Berkeley 5171W  
2121—Berkeley 881  
2122—Berkeley 112J  
2125—Berkeley 2125  
2128—Berkeley 238  
2249—Berkeley 208W  
2301—Berkeley 208J  
2307—Berkeley 5263W  
2323—Berkeley 1407  
2509—Berkeley 1151W  
2521—Berkeley 708  
2525—Berkeley 7346  
2527—Berkeley 765  
2529—Berkeley 40  
2607—Berkeley 5913  
2625—Berkeley 7614  
2627—Berkeley 1207  
Berkeley 8229  
Berkeley 4009  
2701—Berkeley 2421  
2705—Berkeley 745W  
2717—Berkeley 5770  
1323—Berkeley 4692W  
1408—Berkeley 1192J  
1417—Berkeley 7644W  
1421—Berkeley 7644J  
1519—Berkeley 8761  
1533—Berkeley 5997W

Henry st.

Henry st.

"High Acres,"  
Highcourt,  
Highland pl.

Hilgard av.

1529—Berkeley 5000W  
1901—Berkeley 6806W  
Berkeley 4928J  
81—Berkeley 8755  
1732—Berkeley 5103  
1815—Berkeley 1682  
2310—Berkeley 8474W  
2311—Berkeley 7195  
2318—Berkeley 8372  
2314—Berkeley 4038J  
2316—Berkeley 2334  
2316A—Berkeley 5809  
2320—Berkeley 6130  
2327—Berkeley 7983W  
2413—Berkeley 8520W  
2423—Berkeley 1700W  
2435—Berkeley 6406  
2502—Berkeley 1961J  
2507—Berkeley 40  
2508—Berkeley 1961W  
2509—Berkeley 8850J  
2525—Berkeley 6812  
2526—Berkeley 1441  
2529—Berkeley 2261  
2530—Berkeley 3531W  
2537—Berkeley 8850W  
2600—Berkeley 5747  
2614—Berkeley 3335  
2632—Berkeley 5507W  
2528—Berkeley 5086W  
2—Berkeley 5536  
15—Berkeley 6214  
92—Berkeley 7287  
98—Berkeley 9115  
109—Berkeley 3022W  
166—Berkeley 7088  
910—Berkeley 7962W  
2515—Berkeley 5728  
2519—Berkeley 477  
2520—Berkeley 6147W  
2522—Berkeley 7400J  
2526—Berkeley 5075W  
2534—Berkeley 6277W  
2535—Berkeley 5457J  
2545—Berkeley 577W  
2609—Berkeley 808J  
2617—Berkeley 104  
2617½—Berkeley 5223  
2635—Berkeley 2491J  
2643—Berkeley 264  
2646—Berkeley 4848W  
2725—Berkeley 689J  
2726—Berkeley 1526  
2732—Berkeley 941  
2735—Berkeley 1720J  
2740—Berkeley 4780W  
2747—Berkeley 1219W  
2816—Berkeley 8144  
2821—Berkeley 6793W  
2916—Berkeley 6472W  
2919—Berkeley 5819J

Hill court,  
Hillcrest rd.

Hilldale av.  
Hillegass av.

Hillgass av.	2960—Berkeley 5583W	Laurel st.	1108—Berkeley 7754
	3004—Berkeley 4720J	LeConte av.	2808—Berkeley 8385W
	3011—Berkeley 4257W		2316—Berkeley 1409
	3019—Berkeley 4910		2317—Berkeley 1930
	3038—Berkeley 1326J		2327—Berkeley 8978
Hillside av.	2428—Berkeley 4170		2401—Berkeley 1279W
	2440—Berkeley 7434W		2417—Berkeley 5650
	2444—Berkeley 1589W		2421—Berkeley 3062
Hillside court.	15—Berkeley 1982		2425—Berkeley 4334
	18—Berkeley 7437		2431—Berkeley 3062
	19—Berkeley 4489		2515—Berkeley 6994
Home st.	1911—Berkeley 477		2516—Berkeley 3235J
	1922—Berkeley 7571W		2524—Berkeley 2531
	1924—Berkeley 4795J		2601—Berkeley 424
	1925—Berkeley 2434W		2609—Berkeley 3836W
	1932—Berkeley 4795W		2617—Berkeley 4010
Hopkins st.	1527—Berkeley 3925		2621—Berkeley 8626W
	1791—Berkeley 4564J		2623—Berkeley 7039
	1911—Berkeley 6318W		2625—Berkeley 8626J
Howe st.	2315—Berkeley 3146J		2633—Berkeley 2302
	2320—Berkeley 2833J	LeRoy av.	1400—Berkeley 4833W
	2325—Berkeley 4786J		1401—Berkeley 72
Indian Rock av.	838—Berkeley 5286		1402—Berkeley 3888W
	908—Berkeley 7646W		1407—Berkeley 623
	912—Berkeley 2024		1414—Berkeley 318
Jayne st.	1712—Berkeley 4140W		1418—Berkeley 4157
Jefferson st.	2201—Berkeley 5672J		1424—Berkeley 3302
Josephine st.	1504—Berkeley 1924		1429—Berkeley 5344W
	1613—Berkeley 5935		1437—Berkeley 2816J
	1619—Berkeley 5459J		1501—Berkeley 1024W
	1633—Berkeley 3074		1516—Berkeley 1755
	1636—Berkeley 3443W		1518—Berkeley 8962
Keith av.	1040—Berkeley 8715J		1522—Berkeley 6686W
	2309—Berkeley 9327		1536—Berkeley 7764W
	2546—Berkeley 7685		1545—Berkeley 9385
Kelsey st.	2805—Berkeley 5343W		1548—Berkeley 5344J
	2809—Berkeley 4426J		1550—Berkeley 8450W
	2815—Berkeley 413W		1559—Berkeley 8975J
	2826—Berkeley 6189W		1564—Berkeley 5063
	2828—Berkeley 6265		1567—Berkeley 1023W
Kittridge st.	2110—Berkeley 2300		1580—Berkeley 7967J
	2119—Berkeley 2447J		1581—Berkeley 7829J
	2120—Berkeley 2090		1584—Berkeley 6077
	2123—Berkeley 8765		1585—Berkeley 3220
	2124—Berkeley 1229J		1589—Berkeley 8387
La Loma av.	1415—Berkeley 8044W		1590—Berkeley 8384W
	1420—Berkeley 7348		1623—Berkeley 5516J
	1515—Berkeley 3812		1625—Berkeley 5654
	1540—Berkeley 4519		1680—Berkeley 5869
	1550—Berkeley 7516		1715—Berkeley 2351
	1608—Berkeley 8664W		1716—Berkeley 4811
	1615—Berkeley 4188	Lewiston av.	3108—Piedmont 4384J
	1617—Berkeley 5615J		8117—Piedmont 4195
	1618—Berkeley 4039		3120—Piedmont 2509J
	1635—Berkeley 5296W	Lincoln av.	2025—Berkeley 5523
	1715—Berkeley 4844		2047—Berkeley 8518
	1730—Berkeley 8716	Linden av.	2955—Berkeley 5131J
	1811—Berkeley 7494	Lorena st.	2914—Berkeley 8671
	1920—Berkeley 1086W	Los Angeles av.	1970—Berkeley 7165
	1011—Berkeley 6788J		2085—Berkeley 7262
Lassen st.	1012—Berkeley 2185		2203—Berkeley 2550W

McGee av,	1528—Berkeley 8248 2218—Berkeley 1040J 2311—Berkeley 6177J 2532—Berkeley 5481J	Oxford st,	1340—Berkeley 858W 1422—Berkeley 8470 1431—Berkeley 1917J 1433—Berkeley 1874J 1505—Berkeley 4309 1514—Berkeley 4139J 1550—Berkeley 2955 1606—Berkeley 4635J 1608—Berkeley 6240J 1610—Berkeley 2988 1637—Berkeley 2087J 1689—Berkeley 6282W 1641—Berkeley 6641J 1736—Berkeley 7247 1746—Berkeley 3838W 1922—Berkeley 2434J
McKinley av,	2119—Berkeley 2792W 2128—Berkeley 8931W 2228½—Berkeley 784 2240—Berkeley 1412 2306—Berkeley 408 2400—Berkeley 3198 2408—Berkeley 5636W	Panoramic way,	5—Berkeley 7734 7—Berkeley 6005 11—Berkeley 6966J 11½—Berkeley 6966W 17—Berkeley 2712 23—Berkeley 1061W 24—Berkeley 6695J 25—Berkeley 1159 27—Berkeley 1031
Madera st,	1705—Berkeley 4614 1709—Berkeley 6446J 2930—Berkeley 7823 1603—Berkeley 4581 1671—Berkeley 4765W 1841—Berkeley 4461W 2114—Berkeley 4918J 2118—Berkeley 2063W 2239—Berkeley 6512J	Parker st,	1929—Berkeley 3435W 1936—Berkeley 3707W 2010—Berkeley 6797 2015—Berkeley 317J 2134—Berkeley 3182W 2208—Berkeley 5188 2317—Berkeley 8395W 2326—Berkeley 3683 2330—Berkeley 2419 2505—Berkeley 3506W 2519—Berkeley 6090J 2601—Berkeley 1102 2612—Berkeley 577J 2615—Berkeley 2940W 2616—Berkeley 7186W 2628B—Berkeley 2428J 2644—Berkeley 8335J 2670—Berkeley 309 2713—Berkeley 7485J 2715—Berkeley 3206J 2739—Berkeley 8743J 2840—Berkeley 3901
Mariposa av,	1003—Berkeley 6057W 1024—Berkeley 3252 1039—Berkeley 1038J 1054—Berkeley 8214W 1081—Berkeley 6697J 2429—Berkeley 8208 2437—Berkeley 4961 2452—Berkeley 1035 2563—Berkeley 9132 2576—Berkeley 1764	Parkside drive,	123—Berkeley 5867
Martinez av,	839—Berkeley 6934W 916—Berkeley 7146 1430—Berkeley 2155 1544—Berkeley 5864W 1600—Berkeley 2360W 1605—Berkeley 8234J 1634—Berkeley 3011J 1733—Berkeley 7549 1736—Berkeley 9033J 1738—Berkeley 9033W 1739—Berkeley 2808 1818—Berkeley 7861 2609—Berkeley 7138J	Peralta av,	1022—Berkeley 5917 1027—Berkeley 7807W 1341—Berkeley 976J 2200—Berkeley 6760 2224—Berkeley 2538 2231—Berkeley 1303 2235—Berkeley 1302 2237—Berkeley 8682W 2243—Berkeley 5543 2247—Berkeley 6398 2249—Berkeley 7897 2255—Berkeley 2078 2328—Berkeley 386
Mendocino av,	839—Berkeley 6934W 916—Berkeley 7146 1430—Berkeley 2155 1544—Berkeley 5864W 1600—Berkeley 2360W 1605—Berkeley 8234J 1634—Berkeley 3011J 1733—Berkeley 7549 1736—Berkeley 9033J 1738—Berkeley 9033W 1739—Berkeley 2808 1818—Berkeley 7861 2609—Berkeley 7138J	Piedmont av,	
Milvia st,	37—Berkeley 1209W 38—Berkeley 237 1959—Berkeley 7991 1963—Berkeley 1324W 1515—Berkeley 8390 28—Berkeley 9981 1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Mosswood rd,	37—Berkeley 1209W 38—Berkeley 237 1959—Berkeley 7991 1963—Berkeley 1324W 1515—Berkeley 8390 28—Berkeley 9981 1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Napa av,	1959—Berkeley 7991 1963—Berkeley 1324W 1515—Berkeley 8390 28—Berkeley 9981 1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
North st,	1515—Berkeley 8390 28—Berkeley 9981 1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Oakvale av,	28—Berkeley 9981 1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Orchard lane,	1—Berkeley 3339 2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Oregon st,	2425—Berkeley 2648J 910—Berkeley 6338 927—Berkeley 6990J 1010—Berkeley 7855 1036—Berkeley 5116J 1118—Berkeley 1670 1151—Berkeley 6958J 1216—Berkeley 1074J 1224—Berkeley 9381J 1327—Berkeley 5678 1332—Berkeley 7464		
Oxford st,	1332—Berkeley 7464		

Piedmont av.	2340—Berkeley 8158 2400—Berkeley 5224 2434—Berkeley 8341 2444—Berkeley 8587W 2499—Berkeley 2610 2517—Berkeley 6200J 2524—Berkeley 3467J 2525—Berkeley 3679J 2527—Berkeley 4253 2530—Berkeley 575J 2536—Berkeley 5957 2545—Berkeley 7069J 2547—Berkeley 3274W 2611—Berkeley 8023W 2612—Berkeley 6042 2622—Berkeley 4807 2625—Berkeley 8559 2639—Berkeley 2318W 2705—Berkeley 2372 2711—Berkeley 1987W 2752—Berkeley 5838J 2804—Berkeley 1461W 2810—Berkeley 7575W 2813—Berkeley 7481 2814—Berkeley 1958W 2904—Berkeley 3933W 2905—Berkeley 2398W 2947—Berkeley 4263 2957—Berkeley 7211 2960—Berkeley 4459 2967—Berkeley 4464	Regent st.	2504—Berkeley 3892J 2509—Berkeley 3606J 2511—Berkeley 1867J 2517—Berkeley 3606W 2534—Berkeley 3691J 2545—Berkeley 1708W 2546—Berkeley 9038J 2619—Berkeley 307 2632—Berkeley 6403W 2635—Berkeley 6337J 2641—Berkeley 2579J 2701—Berkeley 5072W 2711—Berkeley 9022 2727—Berkeley 3834J 2736—Berkeley 9359J 2738—Berkeley 9359W 2743—Berkeley 4843J 2800—Berkeley 6842 2808—Berkeley 1008 2831—Berkeley 4750W 2836—Berkeley 2210W 2905—Berkeley 2286W 2911—Berkeley 2709 2925—Berkeley 5011J 2927—Berkeley 4888W 3020—Berkeley 6212J 3033—Berkeley 4164
Pine av.	2956—Berkeley 3631W	Ridge rd.	2501—Berkeley 1335 2516—Berkeley 5845 2519—Berkeley 1416 2520—Berkeley 5845 2522—Berkeley 5950 2526—Berkeley 775J 2528—Berkeley 3277 2530—Berkeley 775W 2531—Berkeley 6485 2532—Berkeley 5970 2600—Berkeley 4710 2627—Berkeley 2541 Berkeley 8247 2714—Berkeley 9093
Plaza dr.	9—Berkeley 7794J 45—Berkeley 7176 81—Berkeley 485W	Roosevelt av.	2218—Berkeley 2537W 2234—Berkeley 8960J 2330—Berkeley 8602 2331—Berkeley 7779 2888—Berkeley 8897 1829—Berkeley 8546W 1929—Berkeley 2106W 1943A—Berkeley 5989J 2113—Berkeley 7985W 2201—Berkeley 1944 2637—Berkeley 456
President's House, University Grounds	Berkeley 1413	Rose st.	2315—Berkeley 523J 2322—Berkeley 3754 2119½—Berkeley 4738W 2210—Berkeley 8607W 2214—Berkeley 213 2315—Berkeley 8308 2822—Berkeley 7241 2830—Berkeley 7121J
Prince st.	2003—Berkeley 2844 2134—Berkeley 5379J 2224—Berkeley 4112 2312—Berkeley 6426W 2415—Berkeley 4500J 2419—Berkeley 8116J 2463—Berkeley 1928J 2511—Berkeley 7335 2725—Berkeley 4541W 2733—Berkeley 1788 2743—Berkeley 1000 2765—Berkeley 6561J 2825—Berkeley 5743W 2250—Berkeley 1784W 2301—Berkeley 2068 2317—Berkeley 973 2347—Berkeley 3271 2353—Berkeley 2039 2401—Berkeley 3994W 2405—Berkeley 4420 2436—Berkeley 3685J 2446—Berkeley 8017J 2415—Berkeley 7589	Rose ter.	
Prospect st.		Russell st.	
Regal rd.			

**Russell st.**

2422—Berkeley 5878W  
2424—Berkeley 1750W  
2441—Berkeley 1714J  
2447—Berkeley 6875  
2505—Berkeley 2586J  
2612—Berkeley 2569J  
2784—Berkeley 5432J  
2801—Berkeley 6401W  
2818—Berkeley 4550  
2911—Berkeley 1711  
2948—Berkeley 1568J  
2958—Berkeley 1408  
2959—Berkeley 6131  
2962—Berkeley 4974

**San Benito rd.,  
San Juan av.,  
San Mateo av.,  
San Pedro av.,  
Scenic av.**

902—Berkeley 6850W  
1825—Berkeley 1153  
811—Berkeley 5431  
1763—Berkeley 3978W  
1362—Berkeley 2099  
1398—Berkeley 2306W  
1410—Berkeley 2328  
1416—Berkeley 4150  
1421—Berkeley 7498W  
1434—Berkeley 6686  
1518—Berkeley 8767J  
1516—Berkeley 7049W  
1526—Berkeley 5764  
1528—Berkeley 2665J  
1532—Berkeley 3232J  
1543—Berkeley 3232W  
1609—Berkeley 3520J  
1618A—Berkeley 1608W  
1614—Berkeley 5493  
1619—Berkeley 6090J  
1619A—Berkeley 1700J  
1628—Berkeley 876  
1708—Berkeley 6064J  
1816—Berkeley 2182

**Shasta rd.**

25—Berkeley 7296W  
56—Berkeley 8418J  
83—Berkeley 8550W

**Shattuck av.**

917—Berkeley 403  
927—Berkeley 8645J  
1129—Berkeley 8903J  
1147—Berkeley 626  
1210—Berkeley 5804J  
1517—Berkeley 8615  
1529—Berkeley 1512W  
1546—Berkeley 4872  
1612—Berkeley 8637  
1805—Berkeley 4114W  
2030—Berkeley 158  
2039—Berkeley 4929  
2209—Berkeley 7160W  
2231—Berkeley 4743  
2261—Berkeley 7233J  
2273—Berkeley 8323  
2276—Berkeley 4147J  
Berkeley 8300  
2484—Berkeley 5753  
1450—Berkeley 6419

**Sonoma av.**

1501—Berkeley 2864  
1632—Berkeley 7576J  
1711—Berkeley 9074W  
1528—Berkeley 5411J  
924—Berkeley 7732W  
1012—Berkeley 752  
1042—Berkeley 3168  
1070—Berkeley 5313  
1127—Berkeley 3408  
1164—Berkeley 661  
1309—Berkeley 1006J  
1316—Berkeley 3580W  
1429—Berkeley 2041  
1430—Berkeley 2378J  
1431—Berkeley 3950  
1506—Berkeley 2229  
1516—Berkeley 3439W  
1522—Berkeley 278J  
1539—Berkeley 5346J  
1540—Berkeley 921W  
1544—Berkeley 8819J  
1547—Berkeley 2332  
1611—Berkeley 8257  
1619—Berkeley 2402W  
1626—Berkeley 2665J  
1715—Berkeley 6641W

**Spring st.  
Spruce st.**

**Stuart st.**

1811—Berkeley 2732  
2149—Berkeley 1321W  
2211—Berkeley 5832  
2215—Berkeley 2883W  
2243—Berkeley 3588  
2247—Berkeley 2496J  
2418—Berkeley 3917W  
2647—Berkeley 4847  
2747—Berkeley 6919W  
2801—Berkeley 6343  
2821—Berkeley 6571J  
2827—Berkeley 4894  
2269—Berkeley 4438J  
1760—Berkeley 3978J  
1204—Berkeley 7486  
1301—Berkeley 1737J  
1308—Berkeley 4460J  
1366—Berkeley 5720W  
2215—Berkeley 372  
2236—Berkeley 8030W  
2240—Berkeley 1249  
2248—Berkeley 9011  
2251—Berkeley 3471  
2304—Berkeley 3428  
2312—Berkeley 5985  
2318—Berkeley 5964  
2330—Berkeley 4429  
2403—Berkeley 3608  
2405—Berkeley 5414W  
2614—Berkeley 6911W  
2616—Berkeley 4169  
2705—Berkeley 6533J  
2726—Berkeley 803W  
2848—Berkeley 8654J  
2906—Berkeley 406

**Summer st.  
Tacoma av.,  
Tamalpais rd.**

**Telegraph av.**

**Sixth st.**

Telegraph av,	2916—Berkeley 242 3021—Berkeley 6874W 3103—Berkeley 6556 3120—Piedmont 1953J	Virginia st,	2482—Berkeley 4179 2511—Berkeley 8329 2514—Berkeley 7792 2514A—Berkeley 7844J 2516—Berkeley 8480 2518—Berkeley 6802 2520—Berkeley 2608 2521—Berkeley 1841 2522—Berkeley 6616W 2523—Berkeley 3531J Berkeley 2127 2616—Berkeley 6716 2617—Berkeley 1709J 2624—Berkeley 3663 2637—Berkeley 949 2701—Berkeley 4050 2702—Berkeley 6789 2704—Berkeley 4695W 2707—Berkeley 7896 2708—Berkeley 2259W
Tulare st,	922—Berkeley 4884 926—Berkeley 8195W		
Tunnel rd,	42—Berkeley 4531J 200—Berkeley 1619W		
Union st,	2209—Berkeley 8956 2211—Berkeley 3233W 2212—Berkeley 7611 2212A—Berkeley 7820W 2214—Berkeley 2483 2218—Berkeley 2967 2219—Berkeley 7968 2223—Berkeley 1445 2227—Berkeley 4520		
Union st,	773—Berkeley 993 1799—Berkeley 2174 1804—Berkeley 9018W 1920—Berkeley 7586 2059—Berkeley 2524 2070—Berkeley 7948J 2174—Berkeley 1037 2184—Berkeley 0502		
University av,	50—Berkeley 4954 78—Berkeley 1706 151—Berkeley 839 211—Berkeley 8029J 905—Berkeley 4831J 624—Berkeley 6253J	Walnut st,	1214—Berkeley 2050J 1317—Berkeley 1433J 1329—Berkeley 4203 1423—Berkeley 6356 1425—Berkeley 304 1513—Berkeley 3589 1514—Berkeley 7329 1516—Berkeley 7974W 1521—Berkeley 9358W 1522—Berkeley 6849W 1526—Berkeley 7263W 1533—Berkeley 6849J 1612—Berkeley 1849W 1619—Berkeley 2611J 1620—Berkeley 4566J 1628—Berkeley 4043 1634—Berkeley 1730W 1636—Berkeley 2717 1643—Berkeley 6180 1700—Berkeley 6453 1703—Berkeley 5759W 1704—Berkeley 9383 1705—Berkeley 4276W 1706—Berkeley 6731W 1710—Berkeley 5162W 1714—Berkeley 1177 1717—Berkeley 5847 1726—Berkeley 5483 1731—Berkeley 5759J 1784—Berkeley 6101J 1740—Berkeley 7892 1749—Berkeley 9399W 1809—Berkeley 7233 1815—Berkeley 3092 1830—Berkeley 6396
The Uplands,	1826—Berkeley 634 2005—Berkeley 4434 2213—Berkeley 4207J 2214—Berkeley 3070W 2229—Berkeley 1902W 2237—Berkeley 7493J 2508—Berkeley 2923J 2510—Berkeley 4827 2515—Berkeley 5529W		
Ventura st,	2018—Berkeley 3112J 2025—Berkeley 8964 2037—Berkeley 6760 2111—Berkeley 3423 W 2137—Berkeley 5509W 2241—Berkeley 2647 2243—Berkeley 7580W 2308—Berkeley 6441 2401—Berkeley 1171 W 2411—Berkeley 7205W 2413—Berkeley 7205J 2421—Berkeley 8249 2424—Berkeley 5249 2426—Berkeley 3472		
Vincente av,			
Vine st,			
Virginia st,			
		Ward st,	2134—Berkeley 6065W 2142—Berkeley 3634J 2201—Berkeley 7075W 2208—Berkeley 5541 2216—Berkeley 6119

Ward st, 2240—Berkeley 4874  
 2301—Berkeley 3115  
 2337—Berkeley 8676  
 2421—Berkeley 5309J  
 Warring st, 2300—Berkeley 5496J  
 2308—Berkeley 1385  
 2326—Berkeley 1748  
 2327—Berkeley 4343  
 2328—Berkeley 8358W  
 2330—Berkeley 1620  
 2410—Berkeley 3666  
 2433—Berkeley 8134W  
 2437—Berkeley 8134J  
 2438—Berkeley 2641  
 2467—Berkeley 1336  
 2522—Berkeley 2995J  
 2600—Berkeley 6407W  
 2610—Berkeley 1987J  
 2614—Berkeley 1267W  
 2626—Berkeley 4536  
 Webster st, 2406—Berkeley 4842W  
 2482—Berkeley 3578W

Webster st, 2441—Berkeley 820  
 2457—Berkeley 3807W  
 2611—Berkeley 4130J  
 2731—Berkeley 978W  
 2804—Berkeley 2216  
 2820—Berkeley 2713  
 2828—Berkeley 5892J  
 Wheeler st, 2926—Berkeley 4908W  
 Woolsey st, 1600—Berkeley 3594  
 2013—Berkeley 4262  
 2319—Berkeley 8916W  
 2415—Berkeley 7589  
 2423—Berkeley 9891  
 2431—Berkeley 8036W  
 2616—Berkeley 4472  
 2701—Berkeley 3253  
 2747—Berkeley 3212  
 2810—Berkeley 3104  
 Yolo av, 1935—Berkeley 6360  
 2000—Berkeley 6175  
 2002—Berkeley 7536

## UNIVERSITY TELEPHONES

UNIVERSITY OF CALIFORNIA (connecting with all telephones on the University system)—

To connect with any University telephone *from outside*, ask for Berkeley 7100; when the operator at the University answers, give the number desired with the word "Local." For example "Local 4."

To connect with any University telephone from any University office, it is sufficient to use the word Local with the desired number.

To connect with a telephone outside of the University system, give the operator the number as printed in the Telephone Company's directory.

## Local

- AGRICULTURE HALL**
- 122 Agricultural Extension—Prof. W. T. Clarke
- 147 Prof. B. H. Crocheron
- 128 Agricultural Library
- 121 Citriculture
- 115 Director's Office—Prof. D. N. Morgan
- 114 Director's Private Office—Prof. T. F. Hunt
- 118 Entomology
- 122 Farmers' Institutes
- 184 General Office
- 126 Genetics
- 180 Horticulture
- 182 Irrigation
- Irrigation Investigations (Federal Building)—Bkly 4197
- 145 Landscape Gardening and Floriculture
- 112 Parasitology
- 116 Plant Pathology
- 181 Plant Pathology Investigations
- 118 Pomology
- 101 Rural Institutions—Prof. E. Mead
- 119 Scientific Illustration
- 117 Taxonomy
- 120 Viticulture
- 83 **ANATOMY BUILDING—**  
Prof. H. M. Evans  
Prof. R. O. Moody
- 42 **ARCHITECTURE BUILDING—**  
Prof. J. G. Howard
- BACON HALL**
- 105 Geography, Department of—Dr. J. P. Buwalda
- 102 Geology and Mineralogy—Prof. A. C. Lawson
- 73 Prof. G. D. Louderback
- 104 Palaeontology, Department of
- 66 Prof. J. C. Merriam

## Local

- BOALT HALL OF LAW**
- 69 Jurisprudence, Department of—Prof. W. C. Jones
- 124 Law Association
- 23 **BOTANY BUILDING**  
Prof. W. A. Setchell
- BUDD HALL**
- 81 Agricultural Education
- 79 Agronomy
- 84 Dairy Industry
- 78 Nutrition
- 19 Soil Bacteriology
- 86 Soil Chemistry and Bacteriology—Prof. L. T. Sharp
- 60 Soil Technology
- 60 U. S. Drainage Investigations
- 88 Veterinary Science
- CALIFORNIA HALL**
- 109 Accounting Department
- 4 Accountant—Mr. H. E. Gibson
- 125 Assistant Accountant—Mr. H. H. Benedict
- 14 Alumni Secretary—Mr. H. Roney
- 8 Appointment Secretary—Mrs. M. L. Cheney
- 44 Comptroller's Private Office—Mr. R. P. Merritt
- 3 Comptroller's Office
- 5 Bill Clerk
- 100 Filing Clerk
- 97 Receiving Clerk
- 154 Dean of the Faculties—Prof. D. P. Barrows
- 155 Dean of the Graduate School—Prof. A. O. Leuschner
- 35 Dean of the Lower Division—Prof. T. M. Putnam
- 157 Dean of the Summer Session—Prof. Walter M. Hart
- 9 Dean of Women—Prof. Lucy W. Stebbins



Local

- 50 Education—Prof. A. F. Lange
- 153 President's Office
- 46 Purchasing Agent—Mr. N. Hovey
- 51 Purchasing Department—Mr. G. J. Crinnion
- 95 Order Clerk
- 139 Bid Clerk
- 6 Recorder's Office—Mr. J. Sutton
- 27 Recorders' Office—Committee Room
- 27 (2 bells) Prof. B. M. Woods
- 138 Sanitary Engineer—Mr. H. B. Foster
- Secretary of the Board of Regents
- 2 Secretary's Office—Mr. V. H. Henderson
- 72 Clerk's Office
- 153 Student Employment
- 157 Summer Session—Dean's Office
- 27 (2 bells) University Examiner
- 67 University Extension Division—
- 142 Prof. I. W. Howerth
- 150 CAMPANILE

CHEMISTRY BUILDING

- 58 Freshman Laboratory
- 127 Prof. G. N. Lewis
- 128 Prof. E. O'Neill
- 26 Storeroom

CIVIL ENGINEERING BUILDING

- 54 Prof. A. C. Alvarez
- 86 Civil Engineering, Department of
- 47 Dean's Office—Prof. C. Derleth, Jr.
- 49 Sanitary Engineering
- 98 State Board of Health—Mr. C. G. Gillespie
- 144 Sanitary Engineering Testing Laboratory
- 108 Testing Laboratory
- 31 University Photographer

82 CONSERVATORY

- 68 DRAWING BUILDING (1 bell)
- Prof. H. Kowor

EAST HALL

- 25 Zoology, Department of—Prof. C. A. Kofoid

ELECTRIC LIGHT AND POWER PLANT

- 56 Power Plant

ENTOMOLOGY LABORATORY

- 17 Insecticides and Fungicides Control
- 52 State Food and Drug Laboratory

28 FACULTY CLUB

FERTILIZER CONTROL LABORATORY

- 64 Agricultural Chemistry
- 138 Zymology

Local

- 87 FORESTRY BUILDING
- 88 GREEK THEATRE
- HARMON GYMNASIUM
- 70 Armory—Prof. J. T. Nance
- 16 Physical Education, Department of—Prof. F. Kleesberger
- 63 Training Quarters

HEARST HALL

- 30 Assistant Dean of Women—Mrs. M. B. Davidson
- 96 Physical Education for Women, Department of—Prof. M. Cleveland

34 HERBARIUM

- 68 HOME ECONOMICS (2 bells)
- Prof. M. F. Patterson

HYGIENE AND PATHOLOGY BUILDING

- 71 Prof. F. P. Gay
- 85 Prof. G. Y. Rusk
- 129 Hygiene Museum
- 24 State Hygienic Laboratory
- 15 INFIRMARY

LIBRARY

- 55 Bancroft Library
- 32 Prof. H. E. Bolton

UNIVERSITY LIBRARY

- 140 Map Room
- 74 Booth Phone (Not Public)
- 39 Librarian—Mr. J. C. Rowell
- 90 Associate Librarian—Mr. H. L. Leupp
- 91 Loan Desk
- 89 Order Department
- 92 Periodical Room

MECHANICS BUILDING

- 40 Dean's Office—Prof. C. L. Cory
- 77 Prof. R. S. Tour

MINING BUILDING

- 57 Prof. F. H. Probert
- 53 Mining, Department of
- 34 Herbarium, Dept. Botany
- 84 (2 bells) Prof. E. A. Hersam
- 146 U. S. Bureau of Mines—Dr. L. H. Duschak

45 MUSEUM OF GREEK SCULPTURE AND ANTHROPOLOGY

- 65 MUSEUM OF VERTEBRATE ZOOLOGY
- 48 MUSICAL AND DRAMATIC COMMITTEE
- 143 MUSIC BUILDING—Prof. C. L. Seeger, Jr.

43 OBSERVATORY

PATHOLOGY LABORATORY

- 71 Prof. F. P. Gay
- 85 Prof. G. Y. Rusk

## Local

- 37 PHILOSOPHY BUILDING—Prof. G. M. Stratton  
 59 PRESIDENT'S HOUSE  
 41 PRINTING OFFICE—Mr. J. W. Flinn  
 10 UNIVERSITY PRESS  
 29 RUDOLPH SPECKELS PHYSIOLOGY LABORATORY—Profs. T. B. Robertson and S. S. Maxwell  
 SOUTH HALL  
 18 Physics, Department of—Prof. F. Slate  
 99 STOREHOUSE  
 98 SUPERINTENDENT OF GROUNDS AND BUILDINGS—Mr. E. A. Hugill  
 20 Office  
 18 Residence  
 21 Asst. Superintendent—J. W. Aljets  
 110 Graduate Manager, A. S. U. C.  
 94 MEN'S SWIMMING POOL  
 103 UNIVERSITY DAIRY

## Local

- 81 UNIVERSITY PHOTOGRAPHER  
 UNIVERSITY PRESS  
 10 Office—Mr. A. H. Allen  
 141 UNIVERSITY RABBITRY  
 22 VETERINARY SCIENCE LABORATORY  
 BENJ. IDE WHEELER HALL  
 149 (2 bells) Economics—Prof. C. C. Plehn  
 7 English—Prof. B. P. Kurtz, Secy.  
 12 (2 bells) German—Prof. H. K. Schilling  
 12 (1 bell) Greek—Prof. E. B. Clapp  
 149 (1 bell) History—Prof. L. J. Paetow, Secy.  
 11 Janitor  
 1 (1 bell) Mathematics—Prof. M. W. Haskell  
 75 Political Science—Prof. D. P. Barrows  
 1 (2 bells) Romanic Languages—Prof. R. Schevill

3½m-2,'17

## **REGISTER—PART XV**

## **INDEX**



## INDEX

- A, subject, I, 59, 71, 112.  
 Absence, excuses for, I, 148.  
     graduate study in, XII, 9.  
     leave of, I, 148.  
 Academic colleges, number of officers in, I, 196.  
     regulations of the faculty concerning students in, I, 141.  
 Academic Senate, alphabetical list, I, 20.  
     in order of appointment, I, 14.  
     duties of members, I, 58.  
     standing committees of, XIV, 10.  
 Accounting, courses in, II, 87, 91; V, 21.  
 Accredited schools in California, admission from, I, 100.  
     list of, 1916-17, I, 102.  
 Accrediting of high schools, I, 52.  
 Adams fund, I, 55.  
 Administration of the University, I, 53.  
 Administrative Officers, I, 10; XIV, 5.  
     number of, I, 196.  
 Administrative offices, office hours of, I, 10.  
 Admission, conditions and time for, I, 57.  
     regulations of the faculty concerning, I, 141.  
     to advanced standing in academic colleges, I, 109.  
     to graduate courses, I, 110.  
     to graduate standing, XII, 8.  
     to Hastings College of the Law, VII, 2.  
     to Medical School, VIII, 29.  
     to the California College of Pharmacy, X, 13.  
     to the College of Dentistry, XI, 11.  
     to undergraduate status, I, 57.  
     with deficiencies, I, 69.  
 Admission, methods of, I, 98.  
     by examination, I, 98.  
     College Entrance Examination Board, I, 98.  
     on credentials from schools and colleges in the Orient, I, 109.  
     on credentials from secondary schools outside of California, I, 108.  
     on recommendation from accredited schools, I, 100.  
     on recommendation from state normal schools, I, 108.  
     on teachers' diplomas, I, 108.  
 Admission requirements for academic colleges, I, 59.  
 Advanced standing, admission to, I, 109.  
     in College of Dentistry, XI, 16.  
     in Medical School, VIII, 33.  
 Aesthetics. (See under *English* and *Philosophy*.)  
 Affiliated Colleges. (See under *Law, Art, Dentistry, Medicine and Pharmacy*.)  
 Agricultural chemistry, courses in, II, 9.  
     laboratory, I, 190.  
 Agricultural education, courses in, II, 10; V, 30.  
 Agricultural Experiment Station, I, 192.  
     publications of, I, 193.  
 Agriculture, admission to the college of, I, 64, 65.  
     curriculum of the college of, I, 122.  
     committees of the council of, XIV, 11.  
     faculty and courses of the college of, II, 5.  
     for admission, I, 91.  
     library, I, 174.  
     major subjects in, I, 123.  
     museum, I, 180.  
     number of students in the college of, I, 195.  
 Agronomy, courses in, II, 12.  
 Albert Bonnheim scholarships, I, 164.  
 Albert Sydney Johnston scholarship, I, 163.  
 Algebra, for admission, I, 74.  
     courses in, II, 169.  
 Alumni Association, Council of, I, 193; XIV, 12.  
     in the California College of Pharmacy, X, 85.  
     in the College of Dentistry, XI, 44.  
 Anatomy, courses in, II, 41.  
     in College of Dentistry, XI, 39.  
     in Medical School, VIII, 56, 85.  
     in California School of Fine Arts, VI, 3.  
     summer session courses in, V, 20.  
 Anglo-Saxon. (See under *English*.)  
 Animal husbandry, courses in, II, 14.  
 Anthropology, courses in, II, 44.  
     museum, I, 174.  
     requirements for admission to courses in, I, 65.  
     summer session courses in, V, 20.  
 Apiculture, courses in, II, 19.  
 Application, importance of early, I, 109.  
     for scholarships and fellowships, I, 160, 165, 166.  
 Applied art, for admission, I, 90.  
 Applied science, colleges of, I, 56.  
 Appointment registry, I, 172.  
 Appointment Secretary, I, 155.  
 Arabic, courses in, II, 250.  
 Archaeology, courses in. (See under *Anthropology, Greek, Latin and Semitic Languages*.)  
     collections in classical, I, 175.  
 Architectural competition, Hearst, I, 50.  
 Architecture, admission to the course in, I, 56, 62, 65.  
     courses in, II, 47.

- degree of Graduate in Architecture, requirements for, I, 133.  
 junior certificate in technical course in, I, 116.  
 school of, I, 133.  
**Argumentation, courses in, II, 288.**  
**Art. (See under California School of Fine Arts.)**  
   courses in, II, 79, 81.  
   for admission, I, 90.  
   certificate of proficiency in, VI, 2.  
   normal certificate in, VI, 2.  
   summer session courses in, V, 70.  
**Art Gallery of California School of Fine Arts, VI, 2.**  
**Art Association, VI, 2.**  
**Associated students, executive committee of, XIV, 13.**  
   membership card, I, 154.  
**Association of American Universities, XII, 8.**  
**Astronomical buildings and instruments at Lick Observatory, III, 2.**  
**Astronomical department at Mount Hamilton. (See under Lick Astronomical Department.)**  
   at Berkeley. (See under *Students' Observatory*.)  
**Astronomy, courses in, II, 51; V, 34.**  
**Athletics, regulations concerning, I, 149.**  
**At large, students, I, 57, 70.**  
**Attendance, regulations concerning, XI, 17.**  
**Authority of instructors, I, 144.**  
**B, subject, I, 53, 71, 112.**  
**Bachelor's degree, conditions for a graduate student, XII, 10.**  
   examinations for, I, 145.  
   summary of requirements for in units, I, 182.  
**Bacteriology and veterinary science laboratories, I, 191.**  
**Bacteriology, courses in, II, 38, 39, 207.**  
   in California College of Pharmacy, X, 25.  
   in College of Dentistry, XI, 41.  
   in Medical School, VIII, 63, 84.  
**Bancroft Library, I, 174.**  
**Banking, course in. (See under Economics.)**  
**Bennett prize, I, 159.**  
**Berkeley Astronomical Department, I, 181; II, 51.**  
**Bernhard Nathan scholarships, I, 164.**  
**Biblical archaeology. (See under Semitic Languages.)**  
**Biochemistry, courses in, II, 57; VIII, 60.**  
**Biological Station at La Jolla, IV.**  
**Biology, Herstein Research Laboratory in, I, 13.**  
   courses in (See under *Botany, Physiology, and Zoology*.)  
**Boalt Memorial Hall of Law, I, 50; II, 155.**  
**Board and lodging, I, 153.**  
**Bohemian, courses in, II, 251.**  
**Bonheim scholarships, I, 164.**  
**Bookkeeping, for admission, I, 96.**  
   courses in, II, 87; V, 40.  
**Books, cost of, I, 154.**  
**Botanical collections, I, 178.**  
   gardens and laboratories, I, 182.  
   museum, I, 179.  
**Botany, courses in, II, 59.**  
   for admission, I, 79.  
   in the California College of Pharmacy, X, 19.  
   summer session courses in, V, 21.  
**Bryce historical essay prize, I, 159.**  
**Business administration, courses in, II, 88.**  
**Calendar, of academic colleges, I, 5.**  
   California College of Pharmacy, X, 8.  
   College of Dentistry, XI, 8.  
   Hastings College of the Law, VII, 1.  
   Medical School, VIII, 5.  
   California, College of, I, 46.  
**California College of Pharmacy, I, 13.**  
   admission requirements, I, 67; X, 18.  
   Alumni Association of, X, 35.  
   calendar, X, 8.  
   courses of instruction, X, 15.  
   degrees, X, 13.  
   directors' scholarship, X, 13.  
   examinations, X, 28.  
   faculty, X, 7.  
   fees, X, 30.  
   graduate courses, X, 23.  
   graduating class, 1917, X, 32.  
   graduation in, X, 30.  
   matriculation examinations, X, 29.  
   number of officers, I, 196.  
   requirements for admission, to courses in, X, 13; I, 67.  
   special students, X, 12.  
   students, list of, 1916-17. X, 33; XIV, 189.  
   textbooks, X, 28.  
**California Hall, I, 50.**  
**California Museum of Vertebrate Zoology, I, 177.**  
**California School of Design. (See under California School of Fine Arts.)**  
**California School of Fine Arts, I, 13; VI.**  
   certificate of proficiency, VI, 2.  
   courses, VI, 3.  
   normal certificate, VI, 2.  
   prizes and scholarships, VI, 3.  
   schedule of classes, VI, 5.  
**California state scholarships, I, 160.**  
**Campanile, the Jane K. Sather, I, 51.**  
**Cancer ward in Medical School, VIII, 44.**  
**Candidacy and residence for higher degrees, XII, 9.**  
**Carnot medal, I, 158.**  
**Caswell fund for the dean of women, I, 158.**

- Catalogue of Officers and Students, February, 1917, XIV.
- Celtic, courses in, II, 64.
- Censure, grades of, I, 148.
- Cereal investigations, I, 190.
- Cereal laboratory, I, 191.
- Certificate, high school teacher's, XII, 18.  
of proficiency in art, VI, 2.  
requirements for the junior, I, 111.
- Charter of the University, I, 48.
- Chemical laboratories, I, 182.
- Chemistry, admission to the college of, I, 62, 65.  
candidacy for honors, I, 180.  
courses in, II, 65.  
curriculum of the college of, I, 180.  
for admission, I, 79.  
number of students in college of, I, 195.  
summer session courses in, V, 21.
- Children's Hospital teaching facilities, VIII, 44.
- Chinese, courses in, II, 201.
- Chi Omega prize, I, 159.
- Circular of Information, I.
- Citriculture, courses in, II, 15.  
laboratory, I, 191.
- Citrus Experiment Station at Riverside, I, 192.
- Civil engineering, admission to the college of, I, 62, 66.  
courses in, II, 72.  
curricula of the college of, I, 129.  
Civil engineering equipment, I, 187.  
foundation of the college of, I, 47.  
laboratory, I, 188.  
number of students in the college of, I, 195.  
Summer School of Surveying, V, 21.
- Class loan funds, I, 155, 156.
- Classical archaeology. (See under *Anthropology, Greek, Latin, and Semitic Languages.*)  
collections in, I, 176.
- Classification and numbering of courses, II, 3.  
of students, I, 141.
- Clay modeling, for admission, I, 90.
- Climate of Berkeley, I, 54.
- Climatology. (See under *Geography.*)
- Clinical opportunities in Medical School, VIII, 40.  
staff of the College of Dentistry, XI, 8.
- Clothing, for admission, I, 90.
- Club house loan fund committee, XIV, 14.
- Clubs, students' house, XIV, 148.
- Cole Scholarship, I, 190.
- Colin European graduate fellowship fund, I, 168.
- Collections in, Agriculture, I, 180.  
Anthropology, I, 175.  
Botany, I, 179.  
Classical archaeology, I, 176.
- Geology and mineralogy, I, 180.
- Mathematical models, I, 178.
- Palaeontology, I, 179.
- Zoology, I, 179.
- College Entrance Examination Board, I, 98.
- College of Agriculture. (See under *Agriculture.*)
- College of California, I, 46.
- College of Chemistry. (See under *Chemistry.*)
- College of Civil Engineering. (See under *Civil Engineering.*)
- College of Commerce. (See under *Commerce.*)
- College of Dentistry, I, 18.  
admission, I, 66; XI, 11.  
alumni association, XI, 44.  
calendar, XI, 8.  
course of study, XI, 20.  
curriculum, XI, 32.  
extracts from the regulations, XI, 17.  
faculty, XI, 7.  
fees, XI, 31.  
graduation, XI, 29.  
history of, XI, 9.  
instruments required, XI, 45.  
law regulating the practice of dentistry in California, XI, 29.  
library, XI, 43.  
location and equipment, XI, 9.  
master's degree, XI, 16.  
museum, XI, 43.  
number of officers, I, 196.  
requirements for admission, I, 66; XI, 12.  
requirements for graduation, XI, 29.  
student body, XI, 44.  
students, list of, 1916-17, XI, 46; XIV, 189.  
summer session courses in preparation for matriculation, XI, 14.  
textbooks, XI, 28.
- College of Mechanics. (See under *Mechanics.*)
- College of Medicine. (See under *Medical School.*)
- College of Mining. (See under *Mining.*)
- College of Pharmacy. (See *California College of Pharmacy.*)
- Colleges and departments, I, 12.
- Columbia University fellowship, I, 167.
- Commencement programme, 1917, awards of graduate and professional scholarships, XIII, 51.  
awards of undergraduate scholarships, XIII, 54.  
degrees conferred, XIII, 5.  
honors, XIII, 46.  
military commissions, XIII, 50.  
prizes, XIII, 59.  
programme of exercises, XIII, 3.  
University medal, XIII, 61.

- Commerce, admission to the college of, I, 61, 65.  
 courses in, II, 85; V, 40.  
 curriculum, I, 120.  
 junior certificate in the college of, I, 120.  
 number of students in the college of, I, 195.  
 requirements for graduation, I, 121.
- Commercial and industrial history, for admission, I, 95.
- Committee on Higher Degrees, XII, 3.
- Committees of the Academic Senate, XIV, 10.  
 of the engineering council, XIV, 12.  
 of the Regents, I, 9; XIV, 4.
- Conditions and failures, I, 147.
- Congressional districts of California, I, 161.
- Congressional land grant fund, I, 55.
- Conservatory, I, 182.
- Consular service. (See under *Economics*.)
- Cook prize in poetry, I, 159.
- Cooking, for admission, I, 90.
- Correspondence instruction, I, 171.
- Council of the Alumni Association, XIV, 12.
- Council, Graduate, XII, 3; XIV, 10.
- Counterpoint. (See under *Music*.)
- Courses of instruction, in the academic colleges, II, 5.  
 in the California College of Pharmacy, X, 15.  
 in the College of Dentistry, XI, 20.  
 in the Hastings College of the Law, VII, 3.  
 in the Medical School, VIII, 53.  
 in the California School of Fine Arts, VI, 3.  
 in the Summer Session, V, 19.  
 undergraduate, II, 5.
- Cowell scholarship, I, 163.
- Credit in the summer session, V, 6.  
 units of, I, 58, 142.
- Cryptogamic herbarium, I, 179.
- Curricula, I, 120-138.  
 recommendations for various, I, 65.
- Dairy, the University, I, 192.
- Dairy Industry, courses in, II, 16.  
 for admission, I, 99.
- Dante prize, I, 159.
- Davis, University Farm at, I, 13, 192.
- Davis scholarship, I, 163.
- Dean of the Lower Division, I, 152.
- Dean of Women, I, 152.
- Deans, duties of, I, 152.
- Debates, Carnot, I, 158.  
 intercollegiate, I, 160.
- Debating, courses in, II, 238.
- Decorative design, courses in, VI, 3.
- Deficiencies, admission with, I, 69.
- Degree requirements, A.B. in the College of Letters and Science, I, 117, 132.  
 B.S. in the Colleges of Agriculture, Chemistry, Civil Engineering, Commerce, Mechanics, Mining, I, 182.  
 C.E., XII, 16.  
 D.D.S. in the College of Dentistry, XI, 29.  
 Gr. Arch., I, 133; XII, 12.  
 Gr. Educ., XII, 25.  
 Gr. P.H., I, 138; XII, 12.  
 higher degrees in engineering, XII, 15.  
 J.D. in the School of Jurisprudence, XII, 12.  
 LL.B. in Hastings College of the Law, VII, 5.  
 M.A., M.S., XII, 12, 15.  
 M.D. in the Medical School, VIII, 34.  
 M.E., XII, 16.  
 Met.E., XII, 16.  
 Min.E., XII, 16.  
 Phar. B., in the California College of Pharmacy, X, 30.  
 Ph.C., in the California College of Pharmacy, X, 30.  
 Ph.G., in the California College of Pharmacy, X, 30.  
 Ph.D., XII, 13.
- Degrees conferred, 1917, XIII, 5.  
 regulations concerning, I, 150.
- Denicke loan fund for members of the faculty, I, 157.
- Dental jurisprudence, lectures in, XI, 43.
- Dental pathology and therapeutics, XI, 36.
- Dental porcelain, XI, 34.
- Dental surgery, XI, 35.
- Dentistry. (See under *College of Dentistry*.)
- Departments of instruction, I, 12; XIV, 7.
- Departments of the University, I, 12.
- Dermatology in Medical School, VIII, 72.
- Descriptive geometry. (See under *Drawing*.)
- Dietetics, for admission, I, 90.  
 courses in, II, 146; V, 26.
- Directory of officers of the University, XIV, 15.
- Directory of students, XIV, 46.
- Discipline, I, 148.
- Discontinuance without notice, I, 148.
- Dismissal, honorable, I, 148.
- Disqualified students, I, 147.
- Dissertations, theses, memoirs, for higher degrees, XII, 12, 16.
- Doctor of Philosophy, degree of, XII, 13.
- Doe Library, I, 174; II, 4.
- Dohrmann loan fund for members of the faculty, I, 158.
- Dolbeer scholarships, I, 164.
- Domestic science. (See under *Home Economics*.)
- Dormitories, I, 153.
- Drawing and art, courses in, II, 79.  
 for admission, I, 89.  
 summer session courses in, V, 22, 25.



- Drill. (See under *Military Science and Tactics*.)
- Du Bois scholarships, I, 164.
- Ecology. (See under *Entomology*.)
- Economic geography for admission, I, 95.  
summer session course in, V, 22.
- Economics, courses in, II, 85.  
Flood fellowships in, I, 168.  
requirements for admission to courses in, I, 66.  
summer session courses in, V, 22.
- Education, courses in, II, 95.  
School of, I, 136; II, 95; XII, 18.  
summer session courses in, V, 22.
- Eight-unit rule, I, 147.
- Elective courses, II, 3.  
in Medical School, VIII, 82.
- Electrical engineering, courses in, II, 180.  
laboratories, I, 183.
- Electrical work, for admission, I, 89.
- Electricity. (See under *Physics*.)
- Elocution. (See under *Public Speaking*.)
- Emily Chamberlain Cook prize in poetry, I, 159.
- Employment, opportunities for, I, 154.  
in the California College of Pharmacy, X, 12.
- Engineer, degree of, XII, 16.
- Engineering courses, requirements for admission to, I, 66.
- Engineering degrees, conditions for, XII, 15.  
bachelor's theses, I, 149.
- Engineering Council, standing committees of, XIV, 12.
- Engineering drawing, courses in, II, 79.
- English, courses in, II, 101.  
for admission, I, 72, 81.  
requirements for admission to courses in, I, 66.  
summer session courses in, V, 23.
- Enological and zymological laboratories, I, 191.
- Enology, courses in, II, 39.
- Entomological laboratories, I, 191.
- Entomology, courses in, II, 18.  
summer session courses in, V, 20.
- Entrance examinations. (See under *Matriculation Examinations*.)
- Epigraphy. (See under *Latin*.)
- Ethics. (See under *Philosophy*.)
- Ethnography, courses in, II, 45.
- Examinations, final, I, 144.  
for bachelor's degree, I, 145.  
regulations concerning, I, 144.  
special, I, 144.  
times and places of entrance, I, 98.
- Excess matriculation credit, I, 70.
- Excuses for absence, I, 148.  
from military science, physical education and hygiene, I, 148.
- Executive committee of the Associated Students, XIV, 13.
- Expenses of students, I, 152.
- Experiment Station of the College of Agriculture, I, 192.  
publications of, I, 193.
- Extension of credentials or recommendations, I, 100.
- Extension, University, I, 52, 170.  
in Agriculture, I, 52.
- Faculty of the California College of Pharmacy, X, 7.  
of the College of Dentistry, XI, 7.  
of the Hastings College of the Law, VII, 1.  
of the Medical School, VIII, 11.  
of the California School of Fine Arts, VI, 1.  
of the Summer Session, V, 10.  
regulations, I, 141.
- Failures, I, 147.
- Farm management, courses in, II, 12.
- Farm Mechanics, courses in, II, 22.  
for admission, I, 94.
- Farm, University, I, 192.
- Fees, gymnasium and infirmary, I, 153.  
for changes in study-list, I, 142.  
in the California College of Pharmacy, X, 30.  
in the College of Dentistry, XI, 31.  
in the Hastings College of the Law, VII, 5.  
in the Los Angeles Medical Department, IX, 2.  
in the Medical School, VIII, 39.  
in the California School of Fine Arts, VI, 4.  
laboratory, I, 153.  
late registration, I, 142.  
law library, I, 153; II, 155.  
non-resident, I, 152.  
summer session, V, 5.
- Fellowships and scholarships, I, 160, 165, 167.  
graduate, XII, 7.
- Fertilizer control laboratory, I, 191.
- Fertilizers, courses in, II, 36.
- Final examinations, I, 144.
- Finance Committee, time of meeting, I, 5.
- Flood fellowships in economics, I, 168.
- Floriculture, courses in, II, 27.
- Foods, for admission, I, 90.  
courses in, V, 26; II, 29, 146.
- Forestry, courses in, II, 22.  
experiment stations, I, 192.
- Forest utilization, curriculum in, I, 125.  
requirements for admission to courses in, I, 66.
- Forge work, for admission, I, 89.
- Foundation of the University, I, 46.
- Four-year courses, I, 56.

- Fraternities, XIV, 190.  
 French, courses in, II, 241, 246.  
     for admission, I, 86.  
     summer session courses in, V, 31.  
 Funds, I, 55.  
 Garden, botanical, I, 182.  
     of medicinal plants, X, 19.  
 Gardening, courses in landscape, II, 27.  
 Gas engineering, courses in, II, 183.  
 Gas laboratory, I, 186.  
 General science, for admission, I, 80.  
     teachers' course in, II, 11.  
 Genetics, courses in, II, 26.  
 Geography, courses in, II, 112; V, 64.  
     for admission, I, 80, 95.  
 Geography, economic, for admission, I, 95.  
 Geology and mineralogy, courses in, II, 116.  
     museum, I, 180.  
 Geometry, for admission, I, 74, 78.  
     courses in. (See under *Mathematics*.)  
 German, for admission, I, 87.  
     courses in, II, 122.  
     requirements for admission to courses in, I, 66.  
     summer session courses in, V, 24.  
 Germanic philology, courses in, II, 128.  
 Goewey scholarship, I, 169.  
 Gothic. (See under *Germanic Philology*.)  
 Government, for admission, I, 75.  
     courses in. (See under *Political Science*.)  
 Grades of scholarship, I, 146.  
 Graduate courses, I, 57; V, 125; XII. (See also under the separate departments.)  
     admission to, I, 110.  
     in the California College of Pharmacy, X, 28.  
 Graduate Division, I, 151; XII.  
     admission, XII, 8.  
     candidacy and residence, XII, 9.  
     expenses, XII, 7.  
     fellowships and graduate scholarships, XII, 7.  
     history and organization of graduate instruction, XII, 6.  
     prizes, XII, 7.  
     regulations concerning graduate students, XII, 8.  
     School of Education, XII, 18.  
     summer session work, XII, 7.  
     teacher's recommendation, XII, 18.  
     theses for higher degrees, XII, 12, 14, 16.  
 Graduate School of Tropical Agriculture, I, 13, 192.  
 Graduate students, conditions for a bachelor's degree for, XII, 10.  
     definition of, I, 57.  
     list of, XIV, 46.  
     number of, I, 195.  
     regulations of the faculty concerning, XII, 8.  
 Graduates in Medicine, instruction for, VIII, 33; IX.  
 Graduates, list of in the academic colleges, 1917, XIII, 5.  
     of the California College of Pharmacy, 1917, X, 32; XIII, 5.  
     of the College of Dentistry, 1917, XIII, 6.  
     of the Hastings College of the Law, 1917, XIII, 7.  
     of the Medical School, VIII, 111; XIII, 41.  
 Graduation requirements, in the California College of Pharmacy, X, 80.  
     in the College of Dentistry, XI, 29.  
     in the Hastings College of the Law, VII, 5.  
     in the Medical School, VIII, 34.  
     in the academic departments, I, 132.  
 Graphic Art, courses in, II, 81; V, 70.  
 Greek, courses in, II, 129.  
     for admission, I, 77.  
     summer session courses in, V, 25.  
 Greek sculpture, museum of, I, 174.  
 Greek Theatre, I, 50.  
 Grounds and Buildings Committee, time of meeting, I, 5.  
 Group I, matriculation, I, 61.  
 Group II, matriculation, I, 62.  
 Group III, matriculation, I, 64.  
 Grubstake W loan fund, I, 156.  
 Guide to telephones in Berkeley, XIV, 192.  
 Gymnasium, courses in, II, 216, 219.  
 Gymnasium and infirmary fees, I, 153.  
 Gymnasium, Harmon, for men, I, 193.  
     Hearst, for women, I, 193.  
 Gynecology, courses in, VIII, 80, 90.  
 Hammerslag loan fund, I, 157.  
 Harmon Gymnasium, I, 193.  
 Harmony, courses in, II, 199; V, 27.  
     for admission, I, 96.  
 Hastings College of the Law, I, 13.  
     admission to, I, 67; VII, 2.  
     calendar and directory, VII, 1.  
     courses of instruction, VII, 3.  
     directors, VII, 1.  
     expenses, VII, 5.  
     faculty, VII, 1.  
     library, VII, 5.  
     moot court, VII, 5.  
     number of officers, I, 196.  
     students, 1916-17, XIV, 177.  
 Hatch fund, I, 55.  
 Hawaiian Alumni loan scholarship, I, 165.  
 Hearst architectural competition, I, 50.  
 Hearst Hall, I, 193.  
 Hearst Memorial Mining Building, I, 50, 188.  
 Hearst scholarships for women, I, 160.  
 Hebrew, courses in, II, 250.  
 Herbarium, phaenogamic and cryptogamic, I, 178, 179.

- Herzstein Research Laboratory of Biology, I, 13.
- High school teacher's certificate, XII, 18.
- Higher degrees at Lick Observatory, III, 5.
- Higher degrees, candidacy for, XII, 9.  
committee on, XII, 8.
- Hinckley scholarship, I, 163.
- Historical geography. (See under *History* or *Geography*.)
- History, commercial and industrial, for admission, I, 95.  
courses in, II, 184.  
for admission, I, 75, 78, 81.  
of music, for admission, I, 96.  
of the College of Dentistry, XI, 9.  
of the Lick Observatory, III, 1.  
of the Medical School, VIII, 24.  
of the University, I, 46.  
requirements for admission to courses in, I, 66.  
summer session courses in, V, 25.
- Hitchcock lectureship endowment fund, I, 170.
- Home economics, courses in, II, 142.  
for admission, I, 90.  
requirements for admission to courses in, I, 66.  
requirements for major work, I, 116.  
summer session courses in, V, 25.
- Honorable dismissal, I, 148.
- Honorable mention, I, 111, 118, 150.
- Honorary degrees conferred, 1917. XIII, 45.
- Honors conferred, XIII, 46.  
regulations concerning, I, 150.  
in College of Letters and Science, I, 112, 118.  
in College of Chemistry, I, 132.
- Hooper fellowships, I, 169.
- Hooper Foundation for Medical Research, I, 18, 51; VIII, 25, 44.  
advisory board, VIII, 10.  
courses in, VIII, 69.
- Horticulture, for admission, I, 93, 94.
- Hospital, appointments in Medical School, VIII, 46.  
San Francisco, VIII, 42.  
University, VIII, 41.  
University, medical staff, VIII, 19.
- Houghton scholarship, I, 162.
- House clubs, XIV, 148.
- Household economics, art, and science. (See under *Home Economics*.)
- Howison fellowship, I, 170.
- Hydraulic laboratory, I, 186.
- Hygiene, courses in, II, 148; V, 113.  
in Medical School, VIII, 65.  
required in academic colleges, I, 143.  
teachers' certificates in, II, 149.
- Imperial Valley Sub-station of the College of Agriculture, I, 192.
- Incidental expenses of students, I, 154.
- Incomplete work, I, 146.
- Index to Circular of Information, I, 197.
- Industrial arts, for admission, I, 89.
- Industrial history, for admission, I, 95.
- Infirmity fee, I, 153.  
privileges, I, 194.
- Information, general, I, 152.
- Insect biology, courses in, II, 19.
- Insecticides, courses in, II, 18.
- Instruction, courses of in academic colleges, II, 5.  
departments of, with department meetings, XIV, 7.  
in California College of Pharmacy, X, 15.  
in College of Dentistry, XI, 20.  
in Hastings College of the Law, VII, 3.  
in the Los Angeles Medical Department, IX, 1.  
in Medical School, VIII, 56.  
in California School of Fine Arts, VI, 3.  
organization of, I, 56.
- Insurance, courses in. (See under *Economics*.)
- Intercollegiate debate, I, 160.
- Inter-library loan system, II, 4.
- Intern year in Medical School, VIII, 34.
- Irish, courses in, II, 64.
- Irrigation, courses in, II, 26, 152.
- Irrigation, experimental, courses in, II, 26.
- Irving prize, I, 160.
- Italian, courses in, II, 245, 247.  
summer courses in, V, 32.
- Japanese, courses in, II, 201.
- Jerome C. Levy scholarship, I, 165.
- Johnston memorial scholarship, I, 163.
- Jones scholarships for men, I, 161.
- Journalism, summer session courses in, V, 26.
- Junior certificate, in the college of commerce, I, 120.  
in the college of letters and science, I, 111, 112, 113.  
in the technical course in architecture, I, 138.
- Juris Doctor, degree of, I, 67, 136; II, 156; XII, 12.
- Jurisprudence, courses in, II, 155.  
pharmaceutical, courses in, X, 22.
- Jurisprudence, School of, I, 67, 136.  
number of students in, I, 195.
- Kearney Ranch, I, 192.
- Kellogg fellowship in astronomy, I, 169; III, 4.
- Kerr scholarship in medicine, I, 166.
- Laboratories, I, 180.  
in Medical School, VIII, 40.
- Laboratory fees, I, 153.  
in astronomy, II, 51.  
in bacteriology, II, 207.  
in botany, II, 59.  
in chemistry, II, 65.

- in civil engineering, II, 72.
- in hygiene, II, 148.
- in mechanics, II, 175.
- in metallurgy, II, 194.
- in pathology, II, 207.
- in physics, II, 223.
- Landscape gardening and floriculture, courses in, II, 27.
- Languages, modern, courses in, II, 122, 201, 241.
  - for admission, I, 75, 87.
  - requirements for admission to courses in, I, 65, 69.
- Laryngology, otology, and rhinology in Medical School, VIII, 78, 89.
- Late registration, fee for, I, 142.
- Latin, courses in, II, 162.
  - for admission, I, 75.
  - summer session courses in, V, 26.
- Law. (See under *Hastings College of the Law and School of Jurisprudence*.)
  - courses in, II, 155.
  - library, II, 156.
  - library fee, I, 153; II, 156.
  - requirements for admission to courses in, I, 67.
  - summer session courses in, V, 26.
- Leave of absence, I, 148.
- LeConte memorial fellowship fund, I, 167.
- Lectureships, special, I, 170.
- Letters and science, admission to the college of, I, 61.
  - committees of the faculty of the college of, XIV, 12.
  - junior certificate in the college of, I, 111, 112, 115.
  - number of students in the college of, I, 195.
- Levi Strauss scholarships, I, 161.
- Levy scholarship, I, 165.
- Library, College of Dentistry, XI, 43.
  - Hastings College of the Law, VII, 5.
  - Medical School, VIII, 40.
  - School of Jurisprudence, II, 155.
  - University, I, 174; II, 4.
- Lick Astronomical Department, I, 13, 182; II, 56; III.
  - buildings and instruments, III, 2.
  - fellowships, I, 168; III, 3.
  - history and location, III, 1.
  - number of officers, I, 196.
  - officers, III, 1.
  - regulations regarding students, III, 5.
  - visitors, III, 6.
- Lick Observatory. (See under *Lick Astronomical Department*.)
- Life diplomas, admission on, I, 108.
- Limited students, I, 57, 71.
- Linguistics. (See under the several language departments.)
- Liquor, one-mile law, I, 152.
- Live stock, for admission, I, 92.
- Loan funds, I, 155.
- Lodging, I, 158.
- Logic. (See under *Philosophy*.)
- Lois Caswell fund for the dean of women, I, 158.
- Los Angeles High School scholarships, I, 162.
- Los Angeles Medical Department, I, 13; IX.
  - Lower division, College of Letters and Science, I, 111.
  - Dean of, I, 152.
- Machine shops, I, 187.
- Mackay fellowships, I, 167.
- Major courses, definition of, I, 117.
- Major subject, for the teacher's recommendation, XII, 21.
- Manual arts, summer session courses in, V, 27.
- Mark Hopkins Institute of Art. (See under *California School of Fine Arts*.)
- Master's degree—in the College of Dentistry, XI, 16.
  - requirements for, XII, 10.
  - residence for, XII, 11.
  - thesis, XII, 12.
- Materia medica in the California College of Pharmacy, X, 19.
  - in the College of Dentistry, XI, 39.
  - in the Medical School, VIII, 65.
- Mathematical models, I, 178.
- Mathematics, courses in, II, 169.
  - for admission, I, 75, 78.
  - requirements for admission to courses in, I, 67.
  - summer session courses in, V, 27.
- Matriculation, deficiencies, I, 69, 112.
  - examinations in academic colleges, I, 98.
  - dividing of, I, 99.
  - requirements for, I, 59, 113.
  - in academic colleges, I, 57, 108.
  - in the California College of Pharmacy, X, 13.
  - in the College of Dentistry, XI, 11.
  - in the Hastings College of the Law, VII, 2.
  - in the Medical School, I, 137; VIII, 29.
  - summer session courses in preparation for, V, 4; XI, 14.
- Matriculation subjects. (See under *Preparatory subjects*.)
- Mechanical arts, for admission, I, 89.
- Mechanical and electrical, engineering, courses in, II, 175.
- Mechanical drafting and designing rooms, I, 187.
  - laboratories, I, 183.
  - summer session courses in, V, 27.
- Mechanics, admission to the college of, I, 62, 66.
  - curricula of, I, 127.
  - foundation, I, 47.
  - number of students in, I, 195.

- Medals, I, 158  
 University, award of, 1917, XIII, 61.  
 Medical Department. (See under *Medical School*.)  
 Medical Department at Los Angeles. (See under *Los Angeles Medical Department*.)  
 Medical Research, Hooper Foundation for, VIII, 44.  
 advisory board of, VIII, 10.  
 Medical School of the University of California, I, 13, 56, 67, 137; II, 184; VIII.  
 administrative officers, VIII, 18.  
 admission to advanced standing, VIII, 83.  
 appointments to hospital, VIII, 46.  
 arrangement of studies, VIII, 53.  
 calendar, VIII, 8.  
 cancer ward, VIII, 44.  
 curricula in public health, VIII, 85.  
 departments of instruction, VIII, 56.  
 degrees conferred, 1917, VIII, 101; XIII, 29.  
 electives in fourth year, VIII, 82.  
 examinations, VIII, 33.  
 faculty, VIII, 11.  
 fees, VIII, 39.  
 fellowships, VIII, 46.  
 George Williams Hooper foundation for medical research, VIII, 25, 44.  
 graduates, VIII, 111.  
 graduates, 1917, VIII, 101; XIII, 41.  
 history and development, VIII, 24.  
 homeopathy, VIII, 45.  
 intern year, VIII, 34.  
 instruction for graduates in medicine, VIII, 83.  
 Kerr, William Watt scholarship in medicine, VIII, 45.  
 laboratories and clinical opportunities, VIII, 40.  
 libraries, VIII, 40.  
 loan fund, VIII, 47.  
 matriculation, I, 137; VIII, 29.  
 medical supervision of students, VIII, 40.  
 microscopes and blood-counting apparatus, VIII, 39.  
 number of officers, I, 196.  
 number of students, I, 195.  
 out-patient department, VIII, 48.  
 plan of instruction, VIII, 51.  
 registration, VIII, 39.  
 requirements for admission, VIII, 29.  
 requirements for graduation, VIII, 34.  
 San Francisco Hospital, VIII, 42.  
 schedule of courses, VIII, 94.  
 scholarships, VIII, 45.  
 Sheffield Sanborn scholarship, VIII, 45.  
 social service department, VIII, 43.  
 state law governing practice of medicine, I, 137.  
 students, list of, 1916-17, VIII, 102; XIV, 147.  
 Thompson scholarship, VIII, 45.  
 tuberculosis clinics, VIII, 44.  
 tuition, I, 152; VIII, 39.  
 University Hospital, VIII, 41.  
 Medicine, College of. (See under *Medical School*.)  
 courses in, VIII, 67, 85.  
 instruction for graduates in, VIII, 83; IX.  
 requirements for admission to courses in, I, 67.  
 state law governing practice of, I, 137.  
 Metallurgy, courses in, II, 194.  
 Metal work, for admission, I, 90.  
 Meteorological station, I, 182.  
 Meteorology, courses in, II, 112.  
 Methods of admission, I, 98.  
 Mid-year reports, II, 3.  
 Military commissions conferred, 1917, XIII, 50.  
 Military engineering, curriculum in, I, 126.  
 Military Science and Tactics, courses in, II, 185.  
 required in academic colleges, I, 143.  
 Military uniform, I, 153.  
 Mills Observatory, I, 13; III, 3.  
 Mineralogical laboratory, I, 183.  
 Mineralogy, courses in, II, 120.  
 museum of, I, 180.  
 Mining Building, Hearst Memorial, I, 50, 188.  
 Mining, admission to the college of, I, 62, 66.  
 courses in, II, 190.  
 curricula, I, 128.  
 number of students in college of, I, 195.  
 Mining students' loan fund, I, 157.  
 Modeling, courses in, VI.  
 for admission, I, 90.  
 Models, mathematical, I, 178.  
 Modern languages, courses in, II, 122, 201, 241.  
 for admission, I, 86.  
 Moot court in Hastings College of the Law, VII, 5.  
 Morals of trade, Weinstock lecture on, I, 170.  
 Morrill College aid fund, I, 55.  
 Morrill land grant act, I, 47.  
 Mount Hamilton. (See under *Lick Astronomical Department*.)  
 Museums, I, 174.  
 College of Dentistry, XI, 43.  
 Music, courses in, II, 197.  
 for admission, I, 96.  
 summer session courses in, V, 28.  
 history of, for admission, I, 96.  
 N. S. G. W. fellowships in Pacific Coast history, I, 169.  
 Napa Seminary Club loan fund, I, 157.

- Nathan scholarship, I, 164.  
 Natural science prescribed in Letters and Science, I, 115.  
 Neurology in Medical School, VIII, 71, 87.  
 Newman Hall essay prize, I, 159.  
 Non-resident fee, I, 152.  
 Normal certificate in California School of Fine Arts, VI, 2.  
 Normal schools, admission from, I, 108.  
 Norse. (See under *Germanic Philology*.)  
 Numbering of courses, II, 3.  
 Nutrition, courses in, II, 29.  
 Observatory, Lick. (See under *Lick Astronomical Department*.)  
   Mills, I, 13; III, 3.  
   Students, I, 181.  
 Obstetrics and gynecology in Medical School, VIII, 80, 90.  
 Odontology, courses in College of Dentistry, XI, 43.  
 Office hours of administrative offices, I, 10.  
 Office practice, summer session courses in, V, 21.  
 Officers, summary of, I, 196.  
   administrative, I, 10; XIV, 5.  
   of the University, XIV, 15.  
   of the Regents, XIV, 4.  
 Officers and students, catalogue of, February, 1917, XIV.  
 Olericulture, course in, II, 31.  
 One-mile liquor law, I, 152.  
 Operative dentistry, XI, 32.  
 Ophthalmology in Medical School, VIII, 79, 89.  
 Oratory. (See under *Public Speaking*.)  
 Organization and government of the University, I, 53.  
 Organization of instruction, I, 56.  
 Oriental languages, courses in, II, 201.  
 Oriental schools, admission from, I, 109.  
 Orthodontics in the College of Dentistry, XI, 36.  
 Orthopedic surgery in Medical School, VIII, 77, 89.  
 Otology in Medical School, VIII, 78, 89.  
 Out-Patient Department of Medical School, VIII, 43.  
 Pacific Coast history, fellowships in, I, 169.  
 Paget scholarship, I, 167.  
 Palaeontology, courses in, II, 205.  
   museum of, I, 179.  
 Parasitology, courses in, II, 21.  
 Partial courses, I, 57.  
 Pathology and bacteriology, courses in, II, 207.  
   in the College of Dentistry, XI, 36.  
   in Medical School, VIII, 63, 84.  
 Pedagogy. (See under *Education*.)  
 Pediatrics, courses in, VIII, 73, 88.  
 Perspective, courses in, VI, 3.  
 Petrographical laboratory, I, 183.  
 Petroleum engineering, courses in, II, 193.  
   curriculum in, I, 128.  
 Phaenogamic herbarium, I, 178.  
 Pharmacal jurisprudence, X, 22.  
 Pharmaceutical Chemist, degree of, X, 14.  
 Pharmacology, courses in, II, 57.  
 Pharmacy. (See under *California College of Pharmacy*.)  
 Pharmacy, courses in the theory and practice of, X, 17.  
   degree of Bachelor of, X, 14.  
   degree of Graduate of, X, 13.  
 Philosophy, courses in, II, 210.  
   requirement for admission to courses in, I, 68.  
   summer session courses in, V, 28.  
 Physical education, courses for men, II, 216.  
   courses for women, II, 219.  
   required in academic colleges, I, 143.  
   summer session courses in, V, 29.  
 Physical geography, for admission, I, 80.  
 Physical laboratories, I, 181.  
 Physics, courses in, II, 223.  
   for admission, I, 78.  
   for admission to Medical School, VIII, 29.  
   summer session courses in, V, 30.  
 Physiography. (See under *Geography*.)  
 Physiological laboratory, I, 183.  
 Physiology, courses in, II, 229.  
   for admission, I, 80.  
   in the California College of Pharmacy, X, 19.  
   in the College of Dentistry, XI, 38.  
   in the Medical School, VIII, 59, 83.  
 Pixley scholarship, I, 169.  
 Plant disease laboratory at Whittier, I, 192.  
 Plant pathology, courses in, II, 32.  
   laboratory, I, 191.  
 Plumbing, for admission, I, 89.  
 Poetry, Cook prize in, I, 159.  
 Polish, courses in, II, 251.  
 Political science, courses in, II, 232.  
   requirements for admission to courses in, I, 68.  
   summer session courses in, V, 30.  
 Pomology, courses in, II, 33.  
 Pools, swimming, I, 193.  
 Poultry husbandry, courses in, II, 35.  
 Practice of dentistry in California, law regulating, XI, 29.  
 Practice of medicine in California, law governing, I, 187.  
 Practice teaching, XII, 19.  
 Preparatory studies, requirements and recommendations for, I, 59.  
 Preparatory subjects, description of, I, 71.  
   list of, I, 58.  
 Preston School of Industry fellowships, I, 170.  
 Preventive medicine in Medical School, VIII, 65, 85.

- Principal's recommendation, I, 101.
- Prizes, list of, I, 158.  
awarded, 1917, XIII, 58.
- Professional schools and colleges, I, 56.
- Prosthetic dentistry, XI, 38.
- Prytanean loan fund, I, 155.
- Psychiatry in Medical School, VIII, 71.
- Psychological laboratory, I, 180.
- Psychology, courses in, II, 210.
- Public health, requirements for admission to courses in, I, 68.  
courses in, II, 236; V, 112.  
curricula in, I, 115, 138; II, 236; VIII, 35.  
fees for students in, I, 152.
- Public speaking, courses in, II, 237; V, 114.
- Radiography in the College of Dentistry, XI, 42.
- Recommendation for the high school certificate, XII, 8, 18.
- Recommendations for admission, I, 101.
- Regents of the University, I, 8, 54.  
time of meeting, I, 5.
- Registration, in Medical School, VIII, 39.  
routine of, I, 142.
- Registry, appointment, I, 172.
- Regular students, definition of, I, 57.
- Regulations of the faculties concerning engineering and agricultural theses, I, 149; XII, 12.  
concerning graduate students, XII, 8.  
concerning students at the Lick Observatory, III, 5.  
concerning students in the academic colleges, I, 141.
- Reinstatement of disqualified students, I, 147.
- Religions. (See under *Philosophy*.)
- Reports of instructors, II, 8.
- Research medicine, VIII, 69.
- Residence at the University, I, 110.  
for master's degree, XII, 11.  
in graduate division, XII, 9.  
in the upper division, I, 116.
- Rhinology in Medical School, VIII, 78, 89.
- Richardson Latin translation prize, I, 159.
- Riverside Citrus Experiment Station, I, 192.
- Roentgenology in Medical School, VIII, 80.
- Romanic languages, courses in, II, 240.  
summer session, courses in, V, 31.
- Rural institutions, courses in, II, 35.
- Russian, courses in, II, 251.
- Sampson scholarships, I, 166.
- Sanborn scholarships, I, 165.
- San Francisco Girls' Union scholarship, I, 164.
- San Francisco Hospital, VIII, 42.
- San Francisco Institute of Art. (See under *California School of Fine Arts*.)
- San Joaquin Women's Club loan fund, I, 157.
- San Jose High School scholarship, I, 162.
- Sanskrit, courses in, II, 248.
- Santa Cruz High School scholarship, I, 163.
- Sather Campanile, I, 51.  
gate, I, 51.
- Saxon. (See under *German*.)
- Scholarship, grades of, I, 146.
- Scholarships, I, 160.  
applications for, I, 160, 165.  
awards of, 1916-17, XIII, 51, 54.  
in California College of Pharmacy, X, 13.  
in California School of Fine Arts, VI, 3.
- Schools of the University, I, 56.  
Architecture, I, 183.  
Education, I, 186; II, 95; XII, 25.  
Jurisprudence, I, 186; II, 155.  
Medical, VIII.
- Science, for admission, I, 80.
- Sciences, requirements for admission to courses in, I, 69.
- Scripps Institution for Biological Research, I, 18; IV.  
number of officers in, I, 198.
- Self-support, opportunities for, I, 154.
- Seminary fund, I, 55.
- Semitic languages, courses in, II, 250.
- Senate, Academic. (See under *Academic Senate*.)
- Senior Girls' Association scholarships of the Los Angeles High School, I, 162.
- Serbian. (See under *Slavic Languages*.)
- Sewing, for admission, I, 90.  
summer session courses in, V, 25.
- Sheffield Sanborn scholarships, I, 165; VIII, 45.
- Shelter, for admission, I, 91.
- Shops, I, 187.
- Shopwork, for admission, I, 89.
- Site of the University, I, 54.  
of the California College of Pharmacy, X, 10.  
of the College of Dentistry, XI, 9.  
of the Lick Observatory, III, 2.  
of the California School of Fine Arts, VI, 1.
- Slavic languages, requirements for admission to courses in, I, 69.  
courses in, II, 251.
- Smith Lever fund, I, 55.
- Snell Seminary Memorial loan fund, I, 157.
- Sociology, courses in, II, 92.
- Soil and cereal investigations laboratories, I, 189.
- Soil Technology, courses in, II, 37.
- Soils and fertilizers, courses in, II, 36.
- Sororities. (See *Fraternities*.)
- Spanish, courses in, II, 243, 247.  
for admission, I, 88.  
summer session courses in, V, 31.
- Special examinations, I, 145.
- Special lectureships, I, 170.
- Special students, I, 57, 70.

- Spreckels Physiological laboratory, I, 183.  
 Standing committees of the Academic Senate, XIV, 10.  
     of the Regents, I, 9.  
 State of California scholarships, I, 160, 162.  
 Statistical summary of students, I, 195; XIV, 189.  
     of officers, I, 189.  
 Statistics, course in. (See under *Economics*.)  
 Statistics concerning officers, I, 196.  
     concerning students, I, 195.  
 Status of students, I, 57, 141.  
 Steam and power laboratories, I, 185.  
 Stebbins scholarship, I, 165.  
 Stenography and typewriting, for admission, I, 96.  
     courses in, II, 86.  
     summer session course in, V, 21.  
 Strauss scholarships, I, 161, 162.  
 Students at large, I, 57, 70.  
     catalogue of, XIV, 46.  
     classification of, I, 57, 141.  
     expenses of, I, 152.  
     graduate, XIV, 46.  
     in California College of Pharmacy, X, 33; XIV, 187.  
     in College of Dentistry, XI, 46; XIV, 184.  
     in Hastings College of the Law, XIV, 177.  
     in Medical School, VIII, 102; XIV, 179.  
     limited, I, 57, 71.  
     non-resident, I, 152.  
     regular, I, 57.  
     special, I, 57, 70.  
     statistics concerning, I, 195; XIV, 189.  
     supplementary list of, XIV, 188.  
     undergraduate, XIV, 65.  
     Students' Observatory, I, 181.  
 Study-lists, additions, I, 142.  
     limits, I, 143.  
 Subject A, I, 59, 71, 112.  
 Subject B, I, 53, 71, 112.  
 Sugar-House, practice, I, 191.  
 Summary of officers, I, 189.  
     of students, I, 195; XIV, 189.  
 Summer Session, 1917, I, 173.  
     admission, V, 4.  
     courses, V, 28.  
     courses in preparation for matriculation, XI, 15; V, 5.  
     examination and credit, V, 6.  
     faculty, V, 4, 18.  
     fees, V, 5.  
 Supplementary recommendations from secondary schools, I, 101.  
 Surgery, in the College of Dentistry, XI, 35.  
     in the Medical School, VIII, 75, 88.  
 Surplus matriculation credit, I, 70.  
 Surveying, summer school of, I, 13; V, 21.  
 Swimming pools, I, 193.  
 Syriac, courses in, II, 250.  
 Taussig memorial scholarship, I, 165.  
 Teacher's certificate, high school, XII, 18, 23, 24.  
 Teachers' courses, II, 100.  
 Teacher's life diploma, admission on, I, 108.  
 Telephone guide, XIV, 192.  
 Telephones, list of University, XIV, 206.  
 Textbooks, in the California College of Pharmacy, X, 28.  
     in the College of Dentistry, XI, 28.  
 Textiles, course in, II, 144.  
 Theatre, Greek, I, 50.  
 Therapeutics, in the College of Dentistry, XI, 36.  
     in the Medical School, VIII, 65.  
 Theses, bachelor's degree in the College of Agriculture, I, 122.  
     for the degree of engineer, XII, 16, 17.  
     engineering and agricultural, I, 149.  
     Juris Doctor, XII, 12.  
     master's degree, XII, 12.  
     Ph.D., XII, 14.  
 Thompson memorial fund, I, 165.  
 Tide land fund, I, 55.  
 Toolwork, for admission, I, 89.  
 Toxicology in the California College of Pharmacy, X, 22.  
 Trigonometry, for admission, I, 78.  
     course in. (See under *Mathematics*.)  
 Tropical Agriculture, Graduate School of, I, 13.  
 Tuberculosis clinics in Medical School, VIII, 44.  
 Tuition, in academic colleges, I, 152.  
     in the California College of Pharmacy, X, 30.  
     in the California School of Fine Arts, VI, 4.  
     in the College of Dentistry, XI, 31.  
     in Hastings College of the Law, VII, 5.  
     in the Los Angeles Medical Department, IX, 2.  
     in the Medical School, VIII, 39.  
 Typewriting, for admission, I, 96.  
     courses in, II, 86.  
     summer session courses in, V, 21.  
 Undergraduate students, admission, I, 57.  
     classification of, I, 57.  
     lists of, XIV, 65.  
     number of, I, 195.  
     regulations concerning, I, 141.  
 Uniform, military, I, 153.  
 Units of credit, I, 58, 143.  
 University, administrative officers, XIV, 5.  
     Dairy, I, 192.  
     Extension, I, 52, 170.  
     Farm, I, 13, 192.  
     fellowships, I, 166.



- fellowships at Lick Observatory, III, 3.  
fellowships in Pacific Coast history, I, 169.  
history of, I, 46.  
Hospital, VIII, 19, 41.  
Infirmary, I, 158, 194.  
Library, I, 174; II, 4.  
medal, I, 158; XIII, 61.  
medal loan fund, I, 156.  
meetings, time of, I, 5.  
officers, list of, XIV, 15.  
telephones, XIV, 192.  
Upper division, College of Letters and Science, I, 116, 118.  
Urology in Medical School, VIII, 79.  
Vertebrate Zoology, California Museum of, I, 177.  
Veterinary science, courses in, II, 38.  
laboratory, I, 191.  
Visitors, at the Lick Observatory, III, 6.  
at the California School of Fine Arts, VI, 2.  
Viticulture and enology, courses in, II, 39.  
laboratory, I, 191.  
Vocal expression. (See under *Public Speaking*.)  
Walcott medical loan fund, I, 158.  
Walton memorial loan fund, I, 155.  
Weinstock lectureship on the morals of trade, I, 170.  
Welsh, courses in, II, 64.  
Whiting fellowships, I, 168.  
Whittier Laboratory of Plant Pathology, I, 18, 191.  
William Watt Kerr scholarship in medicine, I, 168.  
Women, Dean of, I, 152.  
Woodwork, for admission, I, 89.  
Xi Psi Phi Fraternity loan fund, I, 158.  
Yale Alumni Association fellowship, I, 168.  
Y. M. C. A. and Y. W. C. A., I, 155.  
Zoological collections, I, 177, 179.  
laboratories, I, 183.  
Zoology, courses in, II, 254.  
for admission, I, 79.  
summer session courses in, V, 32.  
Zymological laboratory, I, 191.  
Zymology, courses in, II, 89.

FEB 28 1918

1m-1.18













